

THE BULLETIN

JANUARY 22, 1996 ~ 49TH YEAR ~ NUMBER 11

Faculty Ask for 5% More, Are Offered 3% Less

BY KARINA DAHLIN

SALARY AND BENEFITS NEGOTIATIONS between the U of T Faculty Association and the administration have started in earnest. This year the talks will not only determine compensation levels but will also indicate how the institution is going to deal with the massive cutback in provincial funding.

"Anything we pay out in improved benefits simply has to be funded by increased cuts," said Professor Michael Finlayson, vice-president (administration and human resources). "There's a direct correlation between the results of compensation negotiations, the level of budget cuts and the academic strength of the University."

The faculty association does not support that theory. The University has accumulated "an enormous amount" of wealth during the past 10 years, argues UTFA president Professor Bill Graham. The government's cut is serious, he believes, but U of T has been well managed and

could easily deal with the budget reduction. "We know and the administration knows they do not have to lay off anyone, nor do they have to reduce any salaries," Graham said. "They are simply trying to take advantage of a situation, assuming people will believe they are in financial distress. In fact, there is no distress, they have been making huge financial gains over the last three to four years and some of these gains need to be shared with the very people who make this university a good place to be."

UTFA forwarded its proposal for negotiations to the administration Nov. 30. On Jan. 19 the administration presented its position. If the two sides are unable to negotiate an agreement, an arbitrator must settle the question.

The administration proposes a three-percent cut to all faculty and librarian salaries and to all salary scales. At the same time the decanal merit pool would be increased from five to 10 percent.

UTFA is asking for a salary increase of about 5.3 percent. The

association also suggests that tutors' salaries be comparable to those of assistant professors, and senior tutors to those of associate professors.

The cost of UTFA's entire proposal is "many millions of dollars," said Finlayson. "In a year when the base budget of the University is being cut by many millions of dollars, this does not seem to be the right time to make such requests. The fact is the University is facing very hard times, there has been a massive reduction in the base operating support; you can't get around that."

Graham said the faculty association will settle neither for a reduction nor salary freeze. "It is irresponsible of the administration to propose a salary reduction at a time when the University is experiencing the greatest growth in their income in the past 10 years. The amount of savings — in the pension plan and the operating budget — during the social contract period on the back of all employees is phenomenal." The three-year social contract took effect in March, 1993. In addition to a

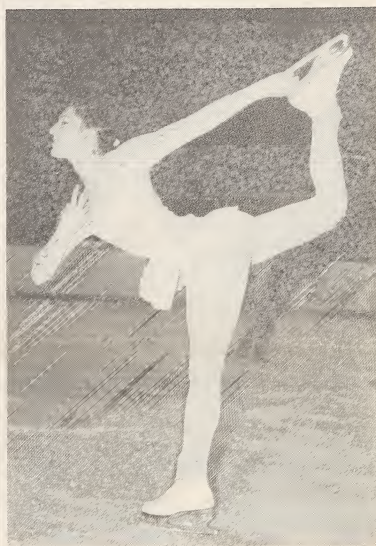
salary freeze, it required University employees to take six unpaid days off and faculty and librarians received no progress-through-the-ranks pay for one year.

In light of these savings, the asso-

ciation's proposal to catch up with inflation from July 1, 1994, to July 1, 1996 is moderate, Graham said. The proposed salary increase is based on

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POETRY ON ICE



Jennifer Goddes, a third-year physical education student, performs a freestyle program during an exhibition by the U of T figure skating team Jan. 18. About 150 spectators watched the all-female team skate 16 numbers at Varsity Arena. The 16-member corps, coached by Jocelyn Planagan, will compete in an Ontario invitational competition at Queen's University this Friday.

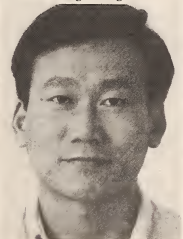
PHOTO BY JENNIFER RAINCOFF

U of T Wins Steacie Prize, Fellowship

PROFESSOR JIMMY XU OF THE Department of Electrical & Computer Engineering has been awarded the 1995 Steacie prize for his contributions to fundamental and applied quantum electronics. The prize, widely considered to be Canada's most prestigious award for young scientists and engineers, is given once a year to recognize outstanding scientific research.

At the same time Professor Demetri Terzopoulos of the

Department of Computer Science has won one of four Steacie fellowships awarded by the Natural Sciences & Engineering Research Council to leading researchers in science and engineering.



Jimmy Xu

Xu's area of research — semiconductor quantum electronics — involves designing and engineering electronic and photonic devices at the atomic level. "This means choosing the right sort of atoms, lining them up in arrays or planes and making them dance and interact in the way we want, in order to process, transmit or emit the right electrical or optical signals," he said.

Designing and working with structures at the atomic level is becoming a very competitive and growing area in engineering with applications in telecommunications, satellites and remote sensing systems. Xu predicts the most important applications of nano and quantum electronics are yet to come.

"Every technology has a life cycle

of 50 to 60 years and we have seen the microelectronics field grow from almost non-existent 40 years ago to a driving force of the information economy today. If history tells us anything there will be another driving technology emerging and we hope our work is contributing to the search for such a technology."

Xu holds the J.M. Ham Chair in Optoelectronics, funded by Bell Northern Research and the Natural Sciences & Engineering Research Council. The Steacie prize is administered by the E.W.R. Steacie Memorial Fund, a private foundation.

Terzopoulos, cited for his work in the fields of computer vision and computer graphics, is known for his pioneering work in artificial life, an emerging field that transcends the traditional boundaries of computer science and biological science.

In his work on human facial modelling, for example, Terzopoulos has produced what is widely recognized as the most realistic biomechanical-expressive model of the human face to date. This work can play a role in planning for reconstructive facial surgery and predicting its results. It is also of interest to researchers in the fields of automated face recognition and compression for teleconferencing.

In another project he has created artificial fish that "live" in a computer-generated virtual world. The fish have "eyes" to see their virtual world and "brains" that govern their actions, which means they swim, forage, eat and mate on their own.

The fellowship will allow Terzopoulos to expand his research.

Strategy Suggests More Cuts to Come

BY SUZANNE SOTO

TUITION FEE INCREASES, DIVISIONAL budget cuts, salary reductions and changes to the long-range budget plan should help U of T absorb a \$42.4 million base budget shortfall, the Planning & Budget Committee has heard.

On Jan. 16 Provost Adel Sedra presented the committee with a preliminary outline of how the administration proposes to deal immediately and over the long term with the shortfall resulting from the provincial government cutbacks.

The outline has three main components: a revision of the long-range budget guidelines covering the 1996-

2000 period; the institution of new cuts to academic and administrative units, including one-time-only, deficit-control measures; and further reductions such as negotiated salary rollbacks, discontinuation or further restructuring of programs and selective enrolment cutbacks.

These strategies, Sedra said, were formulated following widespread consultation on campus and are based on the University's goals of being highly selective, maintaining excellence and "keeping the cuts as far away from the classroom as possible."

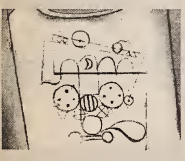
In its revision to the long-range budget the administration makes a

~ See STRATEGY: Page 3 ~

INSIDE

Skeletal growth

FUNDAMENTAL CONSTRUCTION is taking place in Geoffrey Ozin's lab. Page 6



Our columnist

PASHLEY OFFERS HIS THOUGHTS ON the business of art. Page 8

Aggression

UC SYMPOSIUM 18 IS ANYTHING but timid. Events. Page 10

IN BRIEF



Provincial white paper to examine universities

THE ONTARIO GOVERNMENT'S WHITE PAPER ON FUTURE GOALS FOR colleges and universities is expected to be released in late February. According to the province's economic statement issued last November, the discussion paper will address issues such as student and provincial shares of post-secondary funding, accessibility and program rationalization and cooperation. The government promised a four- to six-month consultation process "to assist in developing a new framework for government policy on post-secondary education."

Fingers do more walking

IT'S LESS CONVENIENT, BUT ON THE PLUS SIDE, MORE EXERCISE. THE St. George campus switches to five-number dialling Feb. 19-23 when it will add another telephone exchange to meet the demand for more lines. With the new 946 joining the old 978 exchange, callers will have to press the 6 or the 8 in addition to the last four digits they're used to dialling when calling on campus. There were no more 978 numbers left, said Debbie Stewart, director of Licensing, Contracts & Telecommunications, in a memo to principals, deans, academic directors and chairs. "The speed at which the growth of technology has developed has stretched many of our resources in the Telecommunications Department to capacity including the number of telephone numbers we used." The 971 exchange for fax machines and modems will remain separate and callers must press all seven digits.

Calling male volunteers

HEALTHY MALE VOLUNTEERS OVER 60 ARE NEEDED FOR A STUDY ON genetic and environmental susceptibility to bladder cancer. For the past three years researchers at the Toronto Hospital and the Hospital for Sick Children have been working to determine which populations are at risk for developing the disease. Bladder cancer is the fifth most common form of cancer, especially in men over 60 years of age. Participants will be required to use safe probe drugs so that researchers can determine possible pathways the carcinogens might follow in each person. The drugs are caffeine and Nemasol, a safe antibiotic. To participate in the study, call 813-5675.

AWARDS & HONOURS

Faculty of Arts & Science

PROFESSOR DEREK YORK OF THE DEPARTMENT OF Physics has been selected the 1996 recipient of the Sandford Fleming Medal by the Royal Canadian Institute for his contribution to the public understanding of science. The institute noted in particular the high quality of York's presentations and publications on science education for society at large, on an international scale.

Canadian Institute for Theoretical Astrophysics

PROFESSOR RICHARD BOND OF THE CANADIAN Institute for Theoretical Astrophysics has been selected the 1996 recipient of the Carlyle S. Beals Award of the Canadian Astronomical Society. The award is given biennially in recognition of outstanding achievement in research and is the highest award issued by the society.

Faculty of Law

PROFESSOR JOAN LAX, FORMERLY ASSISTANT DEAN of admissions in the Faculty of Law, was appointed to the Ontario Court, General Division, by Justice Minister Allan Rock Dec. 12. Lax, who was been with the faculty for over nine years, began her new duties Jan. 1.

PROFESSOR STEPHEN WADDAMS OF THE FACULTY OF Law is the recipient the David W. Mundell Medal for 1995. The medal is awarded by the Ministry of the Attorney General to an Ontario writer on legal and professional matters who has made a distinguished contribution to law and letters.

Ontario Institute for Studies in Education

PROFESSOR EMERITUS DONALD H. BUNDAGE OF adult education at OISE has been honoured by the institute with a Distinguished Educator Award. Bundage has made a major contribution to the theory and practice of adult education in Canada and was a central figure in the Canadian Association for Adult Education.

Sunnybrook Health Science Centre

SUNNYBROOK HEALTH SCIENCE CENTRE HAS BEEN named Company of the Year, Excellence, Public Sector by the North York Chamber of Commerce. Sunnybrook won the award based on its accomplishments as a health care industry leader, its role in upgrading industry standards, its ability to preserve jobs by introducing alternative cost cutting measures and its commitment to the environment.

Vice-President & Provost

PROVOST ADEL SEDRA HAS RECEIVED AN HONOUR'S AWARD for 1995 from the Association of Egyptian-American Scholars in the US and Canada. His selection by the Honors & Awards Committee, comprised of past presidents of the association, was unanimous. The award is in recognition of Sedra's distinguished contributions and achievements in education, research, publications and administration.

FACT IS ...



A "WASTE AUDIT" SHOWS THAT 64 percent of University garbage is recyclable. As of last summer 54 percent was recycled.

Police Warned

THE UNIVERSITY MAINTAINS that three U of T Police officers had no business pulling over a suspected drunk driver off campus. But the officers say they had a moral obligation to act and they plan to grieve their reprimands.

On Jan. 19 the three were issued warning letters, said Janice Oliver, assistant vice-president (operations and services), in an interview. "The reason the administration feels firmly about this is that, while we can applaud their intentions, there are better and safer alternatives to achieve the ends."

On Dec. 30 the three on-duty U of T constables were heading off campus to a Bay St. coffee shop. They noticed, followed and then pulled over a suspected impaired driver. Metro police were called and the woman was handed a 12-hour driving suspension.

Oliver said the letters should serve as a warning to the officers to give such action more thought next time. "If you step back and think about it now, we lucked out. The driver could

have panicked — who knows what she could have done to herself or other individuals. They are not trained in pursuit and so that's the issue that we have."

In interviews, two of the constables, Mike Harrison and Earle Cook, said they all will grieve the reprimands that they say will unfairly tarnish their records and hurt their chances for promotion. U of T Police rank-and-file are members of Local 519 of the Ontario Public Service Employees Union.

"We're totally unhappy with this, we think it's totally unwarranted, unjust and we're taking the situation further. It hasn't ended," Harrison said in an interview. Cooke said if the incident happened again, their actions would be the same.

U of T works with Metro police on RIDE programs and is involved in alcohol awareness week with the Students Administrative Council, Oliver said. "We're very involved. What we're just saying is that pursuit was not the best alternative action."

Parking Services

University of Toronto

Parking available for Faculty, Staff and Students throughout the campus for day or evening parking.

Ask us about our new underground parking garage at 107 St. George St. just south of Woodsworth College, under the new Faculty of Management and Innis College Residence.

Cash parking is also available throughout the campus.

For more information call us at 978-2336/1476 or Fax us at 978-1475.



UNIVERSITY - OF - TORONTO

THE BULLETIN

EDITOR: Jane Stirling • jane@dur.utoronto.ca

ASSOCIATE EDITOR: Karina Dahlin • karina@dur.utoronto.ca

WRITERS: Suzanne Soto • suzannes@dur.utoronto.ca

Alfred Holden • alfredh@dur.utoronto.ca

Aldia Minchella • aldiam@dur.utoronto.ca

EDITORIAL ASSISTANT: Ailsa Ferguson • ailsaf@dur.utoronto.ca

PRODUCTION: Michael Andrechuk • A.Zyzykouskas • cas@dur.utoronto.ca

ADVERTISING: Nancy Bush • nancyb@dur.utoronto.ca

DIRECTOR: Susan Bloch-Neveitt • susanb@dur.utoronto.ca



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More Trees, Less Traffic Proposed for St. George St.

BY ALFRED HOLDEN

WHICH NOT PLANT EVEN MORE trees on St. George St? How about extending trees and traffic-calming features to Harbord St. and Hoskin Ave? And will less room for car traffic on St. George cause more accidents?

These were questions raised by students, staff and local residents who had a close look at detailed proposals for revitalizing U of T's portion of St. George St. (Bloor to College Sts.) on Jan. 16. The University, city officials and project architects were seeking comment on drawings and specifications for the street at a public meeting held at Woodsworth College.

For the most part the proposals from project director John Van Nostrand and architects Brown & Storey won praise from students and local residents but many saw room for specific improvements. Suggestions included more trees on St. George's west side and sign kiosks so that flyers could be posted to advertise student events.

The audience was told narrower traffic lanes tend to slow traffic — and may result in fewer accidents.

Though the street will be narrowed, bike paths and parallel parking will be retained. Local residents liked the proposals so much they asked whether the designs could be extended to other streets.

"We support this, we think it's exciting but we want some consideration given to Harbord and Hoskin that is consistent with what is being done here on St. George," George Stephenson, president of the Ulster-Sussex Residents' Association, said during a question-and-answer period.

The University's staff architect, Elizabeth Sissam, and project architects will weigh all the comments and bring a revised set of plans to a public meeting next month. "The commentary that we got was very detailed and speaks volumes about how much people care about the street," Mark Sterling, acting director of architecture and urban design for the city, said in an interview after the meeting. The next meeting will be held at Woodsworth on Feb. 27 at 5 p.m.

On Jan. 16 Planning & Budget Committee gave its blessing to the revitalization project. Following the meeting Professor Michael Marus of the Department of History said the

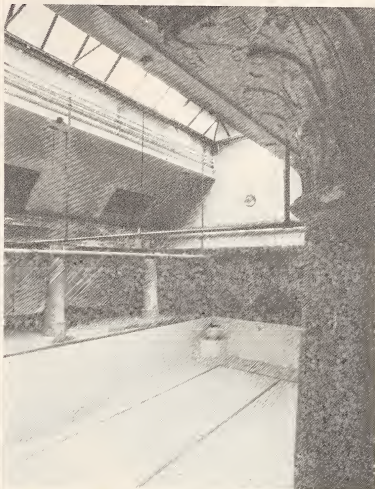
plan reflects "a badly needed enhancement to a part of the campus that is an esthetic disaster area." The project must be approved by Academic Board and Governing Council.

Meanwhile planning student Nori Bleiman will continue soliciting student input from a booth in Sidney Smith Hall; she has also placed information about the project on the Internet.

A budget of \$4 million has been estimated for the project, including \$3 million from the city and a donation of \$1 million from a private donor. Sterling said the donation to a public street is unprecedented in Toronto and was a catalyst in the city's decision to make a substantial commitment.

To thank Toronto for its contribution U of T has created 10 entrance scholarships of \$3,000 each for city residents. The University of Toronto is enormously grateful to you and your colleagues on City Council for your support," President Robert Pritchard said in a letter to Mayor Barbara Hall. "We hope these scholarships will stand as a lasting testimonial to the University's gratitude."

FASHION FACE-LIFT



Renovations are under way at the Lillian Massey Building on the corner of Queen's Park Cres. and Bloor St. in anticipation of the opening of Club Monaco's flagship store. The building, which housed U of T's Department of Household Science earlier in this century, now belongs to Victoria College which has rented out the main floor and basement to the clothing chain. Club Monaco plans renovations including the restoration of plaster columns and hardwood floors. The pool, in photo, will be partially covered. The store plans to open in April.

ROB ALLEN

Strategy Suggests More Cuts to Come

— Continued from Page 1 —

number of assumptions. A key one, Sedra said, is a base salary reduction of about one percent for both academic and administrative staff in 1996-97 and 1997-98.

But it is not a traditional salary cut. The savings from the reduction

will help fund progress-through-the-ranks (PTR) and merit increases during this time. The way it would work, Sedra explained in a Jan. 17 interview, is that a professor now earning \$80,000 a year would experience an annual reduction of about \$720. However, if she qualified for a yearly PTR increase, she would receive, on average, \$2,400. In the years 1998-2000, academic and administrative staff would receive PTR or merit plus a one percent across-the-board annual pay increase.

Other assumptions are: no further cuts by the province to university funding over the next few years; a 20 percent increase in tuition fees in 1996-97; an overall tuition fee increase of about eight percent in each of the following three years; and modest increases to graduate and undergraduate enrolment.

The undertaking of all these measures would bring the shortfall to \$26.7 million. To decrease this amount by another \$6.7 million, Sedra proposes to assign cuts of 1.4 percent and 2.1 percent to academic and administrative units, respectively, starting next academic year. These cuts, which on average amount to 1.5 percent per year, are in addition to the 1.6 percent annual, across-the-board, long-range base budget reduction introduced last year, he noted.

Because the \$42.4 million shortfall occurs in the first year of the University's 1996-2000 plan, the administration plans to spread the reductions over a four-year period. To prevent the accumulated deficit from reaching \$28 million by 2000, U of T will have to take one-time-only deficit control measures — an extra 1.3 per-

cent cut to all departments and divisions. Thus, in 1996-97, the University may reduce its base budget by about three percent as well as introduce the yearly 1.3 percent deficit control measures.

Sedra noted that even after these efforts the shortfall will still be \$20 million — resulting in further cuts of \$13.7 million for academic and \$6.3 million for administrative units. Academic and administrative divisions have been advised of these figures, he said, and they are working with him to deal with the reductions.

The provost added that he hopes some of the \$20 million reduction, including those to academic budgets, can be achieved by further savings in compensation. "There will have to be some layoffs but we will minimize those layoffs if there are savings in compensation," he said.

"We will be seeking salary rollbacks in our negotiations with the various employee groups," he added, reinforcing what he told committee members. "To remind you, every one percent reduction in compensation saves the University \$3.5 million; so, for example, a four percent rollback would take care of the shortfall."

But U of T Faculty Association executive director Suzie Scott, who attended the meeting, said UTFA does not believe the University needs to cut employee salaries to deal with the budget shortfall. "We have analyzed the University's financial statements and there is absolutely — and I emphasize that word — no need for any rollbacks in salary," she said.

"There is currently surplus in the operating budget, professors are retiring in droves, all employees have

gone through three years of having some money deducted from their salaries, so U of T has tons of money."

In addition to wage rollbacks, Sedra added that the University would try to find the balance of the

\$20 million from a combination of measures including: selective enrolment increases and the discontinuation or further restructuring of academic programs and units and administrative activities.

The GSU Alternative

THE GRADUATE STUDENTS' Union believes it has a better plan than the administration for dealing with the University's \$42.4 million funding shortfall.

And GSU president Stephen Johnson told Planning & Budget Committee Jan. 16 the GSU's Alternative achieves the budgetary reductions in a single year without increasing tuition fees, eliminating programs or laying off faculty or staff.

"The University's budget approach is an over-reaction and it is deeply flawed," Johnson states in a letter attached to the GSU plan. "Our alternative shows how millions can be saved or generated without losing staff, faculty or programs."

While the administration is proposing a 20 percent tuition fee increase, the GSU's Alternative calls such a hike unfair and unnecessary. "Students already pay a greater share of the cost of their education than that called for in the Conservative Common Sense Revolution due to a 42 percent increase in tuition and a 230 percent increase in ancillary fees over the past three years," the documents state.

Instead, the Graduate Students' Union suggests the University freeze tuition fees at current levels over the next few years and cut \$44.2 million by:

- introducing wage rollbacks of six percent for senior administrators; four percent for academics; and two percent for administrative and unionized staff
- assuming a 7.5 percent, instead of a five percent, rate of return on its various investment funds, including the Endowed Adjustment Fund
- imposing a five percent across-the-board cut to the discretionary budgets of senior administrators
- making cuts of between 10 and 50 percent to various presidential, vice-presidential and provostial discretionary funds
- increasing fees for student services, including those offered by the Career Centre, Housing Service and Enbridge's health and career counselling centres
- undertaking a number of smaller measures such as hiking parking fees; charging non-students and faculty members for library services; ending employee subsidy programs such as tuition fee waivers and the joint membership; and funding the publication of *The Bulletin* through a faculty and staff levy.
- Robert Spencer, who represents graduate students on the committee, commended some of the excellent suggestions such as the introduction of user fees. Provost Adel Sedra and vice-chancellor Professor David Mock of the Faculty of Dentistry said the proposals would be carefully examined.

Big Hit for Libraries

ONE OF THE HARDEST HIT Areas of the University over the next four years will be its central and divisional library systems, Planning & Budget Committee heard Jan. 16.

Provost Adel Sedra said while the central library's acquisitions budget will be protected as much as possible, its other budget components "will have to deal with something approaching a 10 percent cut" between 1996 and 2000.

What this means, essentially, said Chief Librarian Carole Moore in a Jan. 19 interview, is that there will be fewer people serving library users in the future. "We definitely won't have as many employees to help people and there will be more self-service. I'd like to be cut less but, on the other hand, all academic services and administrative units are receiving cuts."

When it comes to the University's 49 divisional libraries, Sedra said he expects some of these will close and others will be amalgamated. "We have to find some money here towards the \$13.7 million shortfall in the academic divisions."

Hart House Activities

Senior Member Elections for the Hart House Graduate Committee and Recreational Athletics Committee - Nominations open Thursday, February 8th and close Friday, February 23rd. For more information, call 978-2447.

Special Events

The Gallery Grill is open for breakfast (8-11 a.m.); Lunch (11:30 a.m.-3 p.m.) and Afternoon Tea (3-5 p.m.). Students and alumni are welcome. For more information, call 978-2445.

Drama Club - First Annual One-Act Playwriting Competition. Competition is open to all U of T students, faculty, staff, and alumni members. Submission deadline is January 31st. For more information, contact 978-5362.

Formal Debate - Hart House versus The Church of the Society on Thursday, January 25th at 7:30 p.m. in the Debates Room. Topic for debate: "Nationalism is a Dinosaur of the 21st Century".

Writings - Literary Pub on Wednesday, January 31st at 7:30 p.m. in the Arbor Room. Licensed. Free Admission. Crossroads Cart - Performance Art - Poetry in sound and movement. For more information, call 978-5362.

Art

Justina M. Barilko Gallery - Frederick Coates: Portrait of an Artist/Designer. Show runs until January 28th.

Music

(For more information, contact 978-5362)

Slagers - New members sign-up on Monday, January 22nd & 29th at 7:30 p.m.

Symphonic Band - New members sign-up on Tuesday, January 23rd at 6:30 p.m.

Clubs

Bridge Club - Orientation Night and sign-up for Novice Classes on Tuesday, January 23rd at 6 p.m. in the Map Room.

Film Board - Animation Workshop with Peter Sepp at his Broadview Avenue Studio on Wednesday, January 31st from 7:10 p.m. Video Editing Workshop with Susan Howard on Saturday, February 3rd from 1-5 p.m. Pre-register for both workshops at the Hall Porters' Desk, 978-2452.

Yoga Club - Winter classes for Beginner and Intermediate Yoga start the first week of January and run until mid-April. Sign-up at the Hall Porters' Desk, 978-2452.

Athletics

(For booking hours and pool hours, contact 978-2447)

Hart House Farm - Winter Carnival event on Saturday, January 27th. Advance ticket sales are \$18 with bus; \$15 without until Thursday, January 26th. After January 26th, tickets are \$23 with bus; \$20 without. Please call the Hall Porters' Desk at 978-2452 for more information.

Class Registration - Registration for Athletics classes continues in the Membership Services Office, 978-2447.

Indoor Trailblazer - Saturday, February 3, 1996. Participate in or volunteer for the annual Indoor Trailblazer. Registration information available in the Membership Services Office, 978-2447.

HART HOUSE
UNIVERSITY OF TORONTO

Faculty Ask for 5% More

- Continued from Page 1 -

the consumer price index for Toronto in 1994-95 (2.7 percent) and the projected CPI for 1995-96. So far, from July to December, 1995, the figure has averaged 2.6 percent.

If the University is unable to pay at least cost-of-living expenses, how can it draw top-notch researchers to Toronto, Graham asked? "They claim they want to have the best research university in Canada. Well, this sort of proposal is not calculated to draw bright young people here or to keep people here who are mobile."

The administration is not happy at proposing a salary cut, Finlayson said. But there is no need to worry, he added. A three percent reduction will still mean U of T faculty members are the highest paid in Canada. "We know that few if any university faculty in Canada will receive salary increases this year so we don't think the salary increases"

are necessary to maintain our position, consistent with the University of Toronto being Canada's pre-eminent university and its faculty paid pre-eminent salaries."

Finlayson also pointed out that a professor earning \$80,000 would not actually lose money because his or her progress-through-the-ranks payment would make up for the difference.

The two sides agree that the workforce at U of T has to be reduced and both look to early retirement as a way to achieve this goal. UTFA

proposes a new early retirement plan, allowing faculty and librarians between the ages of 50 and 55 and with 10 years of service to retire early and receive three percent less than they would receive at the normal early retirement age of 55.

The association also suggests that faculty and librarians, who are 62 years or older when they retire, receive a one-time allowance of \$2,000 for each year of service to the University in addition to their pension.

THERE IS NO
GUARANTEE THAT
LAYOFFS WILL BE
AVOIDED IF EMPLOYEES
TAKE A SALARY CUT

The administration proposes that the early retirement plan be improved with \$30 million, money that would be drawn from the pension plan. Basically this would permit 55-year-old faculty and librarians, whose age and years of service add up to 75, to retire with an unreduced pension as though they were 65. The proposal also extends to faculty members who are 53 or 54 today, allowing them to sign up for early retirement at 55.

With respect to benefits, UTFA makes 10 recommendations, among

them that research and study leave compensation be raised from 82.5 percent to 90 percent of the researcher's salary.

The administration proposes a \$1 million reduction in the cost of benefits for faculty and librarians. "We've got a very generous benefits package," Finlayson said. "But the cost of it has gone up much more rapidly than inflation." The administration suggests that caps be introduced and certain benefits, such

as services of psychologists and masseurs, be capped or removed from the extended health care plan. It also asks UTFA to consider the discontinuation of the vision care plan and the reduction of the level of coverage for prescription drugs.

Other employee groups have yet to discuss salaries and benefits with the administration. Finlayson said in recent years they have received comparable, although not identical, settlements to UTFA's. "In recruiting and retaining faculty members, we are at work in a different market from the market that operates with respect to administrative staff so sometimes settlements are different."

There is no guarantee that layoffs will be avoided if employees take a salary cut, he noted. However, the number of layoffs have been few and the administration hopes most of the future downsizing can be achieved through early retirement and other measures.

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Order of Canada for Gotlieb

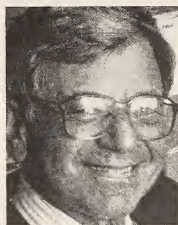
PROFESSOR ENRIETUS CALVIN Gotlieb of the Department of Computer Science has been appointed a member of the Order of Canada. He will receive the award at a ceremony at Rideau Hall in May.

Appointed for his contributions to the field of education, Gotlieb is recognized for his work leading Canadians into the age of computing. The announcement by the governor general also mentions that Gotlieb established the first department of computer science in Canada — at U of T more than 30 years ago. "He

has been a consultant to government and industry and has contributed immeasurably to the understanding and development of information technology in the academic community," the citation says.

Gotlieb earned his PhD from U of T's physics department in 1947. Soon after he was hired to work on a project to construct the University of Toronto Electronic Computer, the first computer to be built in Canada. Later Gotlieb switched his attention to software development and other projects. For example, in 1970-72

he participated on a United Nations panel advising then Secretary-General U Thant on ways computers could be used in international development, an event that fuelled his interest in the social and political aspects of computing.



Calvin Gotlieb

Today, at 74, Gotlieb continues to teach a course on the social effects of computers and is studying the Internet and its implications. He is a member of an information highway working group that belongs to the Alliance for a Connected Canada and was established to comment on the recent report of the federal Information Highway Advisory Council.

In an interview Gotlieb said he never thought in the 1940s that computers would ever be as pervasive as they are today. "I always knew they would be important to science, even to work in the humanities, but it never occurred to me that computers would be used instead of typewriters."

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January 28	Women Scientists: Current Issues and Realities	Panel Discussion <i>Joint Session with the University of Toronto</i>
February 4	Uncertainty, Surprise, and the Limits to Prediction	Crawford S. Holling Arthur R. Marshall Professor of Ecological Studies, University of Florida.
February 11	Light Information	Henry M. Van Driel Department of Physics <i>Joint Session with the Department of Physics</i>
February 18	Blood Substitutes and Beyond	Ronald Kluger Department of Chemistry <i>Joint Session with the Department of Chemistry</i>
February 25	Romancing and Deciphering the Stone—the Emerald Mines of Colombia	Terri Ottaway Geologist, Gemmologist, Royal Ontario Museum
March 3	The Class of 2000: Integrated Knowledge and Community Service	Ursula Franklin with Students <i>Joint Session with the Ursula Franklin Academy</i>
March 10	Impact Earth	Brian G. Marsden Harvard-Smithsonian Center for Astrophysics, Cambridge, MA <i>Joint Session with the Royal Astronomical Society of Canada</i>
March 17	Environmental Scarcities and Violent Conflict in Developing Countries	Thomas Homer-Dixon Director, Peace and Conflict Studies

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Nancy's Part-Time Child Care Expands

INFANT DAY CARE IS A POPULAR service at U of T but spaces are as scarce here as they are at similar universities in the US, says acting family care adviser Ellen Giles.

Earlier this month Nancy's Part-time Child Care Centre moved from cramped quarters at 40 Sussex Ave. to a larger dwelling at 655 Spadina Ave. In May the centre plans to expand its operation to accommodate 20 infants, up from its current limit of 15. But that is small consolation for the parents of some 50 to 80 children on Nancy's waiting list.

Giles is currently conducting a review of all child care services at the University, a project that includes a comparison of facilities here with

those at other institutions. She hopes to finish her report by the end of February. Rather than writing something that emphasizes what should be done, Giles said she expects to produce an interim document with data on which others can base their own recommendations.

The only other place for infants on campus is the Campus & Community Co-operative Day Care Centre on Devonshire Place, Giles said. However, the University is eventually planning to demolish the buildings that house the cooperative day care centre and the adjacent Margaret Fletcher Day Care Centre (which does not look after infants) to make room for other developments.

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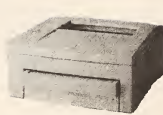
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THE SHAPE OF THINGS TO COME

Adding a pinch of this, a dash of that can have some amazing results for scientists

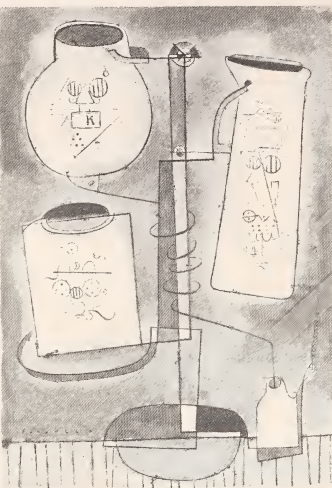
By ALIDA MINCHELLA

SHIFTING THROUGH PILES OF MANUSCRIPTS ON THE library racks, Linda Ozin stifled a scream. Amid publications that had not been cracked open for probably a century were some sketches. The renderings of chemical structures by a Dutch naturalist more than 100 years ago bore an uncanny resemblance to ones her husband Geoffrey Ozin had recently created in his laboratory. What startled her most though was that the structures were similar not only in their shapes and lace-like patterns but also in their colour scheme — colours her husband had chosen arbitrarily.

"She thought maybe I was his spiritual reincarnation or doppelgänger," says Ozin laughing, referring to scientist Professor Pieter Harting of the University of Utrecht. In the 1870s Harting was one of the first to investigate the unknown territory of synthetic morphologies and biomimicralization. He made calcareous concretions à la Betty Crocker using calcium-based materials and albumen.

One hundred and twenty-three years later Ozin and co-workers Scott Oliver, Alex Kuperman, Neil Coombs and Alan Lough have concocted very tiny skeletons in a beaker. The groundbreaking work of these modern morphologists was published in the November issue of *Nature*. "It just goes to show that no one does anything first," says Ozin, a professor in the chemistry department. "Everyone builds on something else."

"Build" is an appropriate choice of words because the process of creating laboratory microskeletons is analogous with construction, albeit on an extremely tiny scale. Using a bit of this and a pinch of that (phosphoric acid and a surfactant, a soap-like substance) the chemists brew large organic molecules. The ingredients of inorganic materials like silica, calcium phosphate or calcium carbonate are added and jostle for a position on the surface of the large organic molecules. The inorganic minerals assemble themselves like Lego blocks on the surface of the molecule; when finished they resemble the



skeletons of single- and multi-cell marine organisms.

Many of the artificial skeletal structures bear a striking similarity to the delicate lace-like microskeletons of diatoms and

radiolaria, the exquisitely sculpted spicules of marine sponges and the quilt-like patterns seen in sea urchin shells. This attachment of minerals to an organic structure resembles the process of forming biominerals in the natural world. "We can make skeletal-like structures with elaborate forms and exquisite patterns that morphologically resemble those found in nature," Ozin says. "And our strategy likely bio-mimics the way skeletons are normally created."

The discovery is important because the shape of inorganic materials controls its properties and functions. An understanding of nature's work with inorganic structures can lead to the invention of new materials with unique or enhanced properties. "Nature does not waste energy manipulating inorganic materials and structures without function," Ozin says. "It eliminates those that do not perform adequately and economically."

Eventually he hopes the discovery will lead to inventions such as smaller and faster computer chips, bone replacement materials, ceramics with unique and advanced properties and better water purification filters.

While the practical applications are significant, Ozin, waxes most eloquent about the basic scientific implications. He describes the unusual shapes and patterns of his materials with almost child-like awe as though they were rare Picasso. Most gratifying, perhaps, is the lofty feeling of having learned something new and exciting about one of nature's best-kept, age-old mysteries. "Nature has many secrets that were learned over evolutionary time scales," he says. "Why are skeletons made of the material they're made of? Why are they the shape they are? Why do they have the properties they have? Scientists have been interested in learning the secrets to the growth and form of skeletal structures and how they have evolved since the morphology field emerged in the 19th century."

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SPOTLIGHT ON RESEARCH

OFFERINGS OF HOPE

Drug offers hope for spinal cord injury

A researcher who studies the body's neurological functions after spinal cord injuries has found that a drug increases the chances of nerve-fibre recovery if taken immediately after trauma.

Professor Elizabeth Theriault of the Department of Surgery and the Playfair Neuroscience Unit of The Toronto Hospital (Western Division) has used a synthetic chemical now on the market to protect spinal cord fibres against further damage. The drug offers hope to the more than 15,000 Canadians who sustain devastating spinal cord injuries each year.

"The neurological deficits that result following trauma to the spinal cord are often progressive and result primarily from damage to the nerve fibres that carry messages up and down the spine," Theriault explains. "The discovery of a pharmaceutical product that helps nerve fibres survive during the acute post-injury phase would constitute a significant advance in the treatment of spinal cord injuries."

A patent application on the drug filed through the University's Innovation Foundation prevents Theriault and her colleagues from disclosing the name of the chemical but she does say it activates glutamate receptors in both the brain and the spinal cord. The foundation hopes to license the drug as a treatment for spinal cord trauma soon.

Look north for new approaches to government

Professor Graham White of the Department of Political Science is tracking the creation of two new northern governments. The governments take office in 1999 when the Northwest Territories is divided into Nunavut Territory in the central and eastern Arctic and a territory in the Mackenzie Valley, yet to be named.

Although the vast area is inhabited by only 60,000 people, the ongoing process raises a host of fascinating and fundamental questions, White says, mainly because it requires accommodation of aboriginal approaches to governance.

"In ways that have never been open to most Canadians south of 60°, the

people of the Northwest Territories have an opportunity to create the governments they want, adapted to their particular needs and aspirations," White says. "Throughout North America, and indeed the world, talk is endemic about 're-thinking' or 're-inventing' government — in the territories, it's happening."

White and Kirk Cameron of the Department of Indian Affairs and Northern Development have just written a book, describing the issues at hand. *Northern Governments in Transition: Political and Constitutional Development in the Yukon, Nunavut and the Western Northwest Territories* says Canadians everywhere can learn from the experience of the northern territories, including, for example, about the capacity of government institutions to accommodate diverse interests and perspectives.

The book precedes various research studies and the final report by the Royal Commission of Aboriginal Peoples, expected next spring.

Shedding new light on the universe

Now there's firm evidence that the population of galaxies has changed as the universe has aged, thanks to Professor Simon Lilly of the Department of Astronomy and an international research team.

"There were roughly three times more galaxies that actively produced stars at a rate similar to our own Milky Way when the universe was only half its present age," says Lilly.

Overall the rate at which the universe is forming stars has probably declined by a factor of 10 over the last two-thirds of its history. Also the distribution of galaxies in space was more random in the past and galaxies were substantially less clustered together than they are today.

The Canada-France Redshift Survey, conducted between 1991 and 1995 using the Canada-France-Hawaii Telescope in Hawaii and the Hubble Space Telescope, is an observational study of a large sample of very distant galaxies. The galaxies, so far away that the light has been travelling to earth for over half the history of the universe, were selected based on their similarities to local galaxies so that meaningful

comparisons could be made.

"We observed instances where the universe has changed little and instances where it has changed dramatically," says Lilly. "Understanding the relationship between these changes and the properties that have remained unchanged will deepen our understanding of how the universe developed from its initial simple beginnings in the Big Bang to the complex environment we see today."

The study has provided a well-defined sample of 750 new galaxies, with the catalogue consisting of 1,053 objects. This sample is 10 times larger than previously published surveys of galaxies at this distance.



Evidence of early hallucinogens recovered

Professor Gray Graffam, an archaeologist in the Department of Anthropology, has found evidence of the earliest bronze making in the Americas at an archaeological site in northern Chile. He has also recovered ceramic pipes for smoking hallucinogenic substances, a child's doll, jars in the shape of a stylized human face and hundreds of polished bowls.

Evidence for the bronze-making activity includes slag, furnace blocks, molds and crucibles. Using copper and arsenic from local mines, the villagers made bronze ingots from which they fashioned jewelry and tools.

Graffam first visited the site about 18 months ago after a local archaeologist drew it to his attention. It contains the remains of a village of more than 1,000 people that arose about 2,400 years ago and mysteriously disappeared 1,000 years ago.

Graffam's research, conducted with the permission of the government of Chile, is supported by the Social Sciences & Humanities Research Council of Canada and by Cominco Ltd., a mining company.

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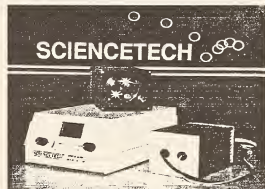
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Governing Council Academic Board Election 1996

REMINDER



Nominations Close

Nominations close **January 26th** at noon.

Nominations for the following Governing Council and Academic Board elections close this Friday at noon:

- Governing Council - teaching staff and students
- Academic Board - teaching staff and librarians

Nomination forms are available in Room 106, Simcoe Hall or at the Registrar's Offices at Scarborough and Erindale Colleges. For further information, please call Susan Girard at 978-8428.

The membership should reflect the diversity of the University. Nominations are, therefore, encouraged of a wide variety of individuals.

LETTERS

JUST LEAVE MY PASSWORD ALONE

The recent upgrade of the voice-messaging system was a necessary measure that was accomplished with a minimum of disruption to the University community. Good. What I don't understand is the required periodic password change. I resent having to think about what should be a trivial exercise. Until now I have retrieved my messages and endured the time-wasting entry sequence by putting my actions on auto-pilot and using those precious seconds to think of other matters. Now this self-important service is calling me to heel; I will continually have to service its needs. I can no longer ignore it. My private password has served me well for the past several years and I don't want to change it just to satisfy the *diva ex machina*. And I'm not worried that some spy will penetrate my Bond-like password defences because, frankly, my messages are just not that private. Perhaps those who wish the added security of frequent password changes could choose it as an option. Just leave me alone, I'm too busy.

ROBERT FISH
INFORMATION COMMONS

ASK MORE QUESTIONS

Given that the "employee groups" are currently trying to "negotiate" salaries and benefits with the administration, I found the front page article in *The Bulletin* offensive (Pay Cuts Are Possible: Sedra, Jan. 8). It appeared, at least to me, to be an attempt to intimidate the University community rather than to present useful information. Certainly Bill Graham [president of the faculty association] should have been interviewed as well.

If you are going to print the views of Provost Adel Sedra, then you should also do some research and consider writing about what is going on around the campuses — especially Scarborough — at the present time.

DENNIS PATRICK
FACULTY OF MUSIC

WANT TO KNOW, BUT CAN'T AFFORD IT

The University's Policy on Access to Information & Protection of Privacy may be intended to ensure public accountability but the fee guidelines do not make information accessible or affordable to many public interest groups and especially to student groups (Access, Privacy Provision in Policy, Dec. 18). These groups do not have the money to pay for labour at \$40 per hour plus expenses such as photocopying at 20 cents per page.

Jack Diamond, the freedom of information commissioner, said the University "has an obligation to conduct our operations as much as possible in ways that are open to

public scrutiny." We believe that to ensure public accountability, information about controversial issues should be made public without charge so that there can be open and critical discussion about them.

SUSAN KRAJNC
U OF T ANIMAL RIGHTS
ADVOCATES

NAMING NAMES

Your account of the recent Robertson Davies memorial contains two small slips (Literary Lion, Dec. 18). The outspoken painter rebuked by Davies was Harold Town, not Towne; and although Guy Lombardo was a native of southwestern Ontario as was Galbraith, the latter erred in calling him the "king of swing." That title belongs to Benny Goodman.

JOHN BECKWITH
FACULTY OF MUSIC

A HELPING HAND

I would like to offer a vote of thanks to young people. On Friday, Dec. 6, at around 5:30 p.m. I was visiting the U of T Bookstore on College St.

As I was leaving to catch a streetcar I ran down the Bookstore steps. Unfortunately I missed the bottom one and took a nasty fall. I was stunned, but looking at the wheeled dragons heading west, I hurriedly got up.

An adult woman walking east passed me without so much as a howdy do! I was standing trying to get my breath back when a younger woman, who I think was sitting on the steps of the Bookstore, came up to me and solicitously asked if I was OK to proceed on my own. She even offered to walk with me if I was not going too fast. I thanked her and just said I would catch the next streetcar.

I think that she deserves a public vote of thanks for her display of kindness to a stranger. It is indeed a pleasure to see that some young students have been well trained in the humanities!

MARK DE SOUZA
TORONTO

SALARY REDUCTIONS SHOULD BE VOLUNTARY

Professor Robert Reisz proposes a revision of the University's salary scheme to solve problems created by Mike Harris' slash-and-burn funding policies: a pay cut for faculty members, savings added to the PTR pool, this used to reward junior faculty who show excellence, bribing them not to go elsewhere (Merit changes would help junior faculty, Jan. 8). Older faculty who are mobile will depart but that is not as important as keeping junior faculty who, Professor Reisz says, "are our most valuable asset." Remaining senior faculty will bear the burden of the salary cut not only in the actual cut but also in the pension reduction that the

salary decrease will create. But that seems unimportant: these senior faculty and librarians are no longer valuable assets to the University. Deadwood, no doubt, who don't deserve the salaries they get.

The salary scheme is not the University's to tinker with. It can be modified only if the University of Toronto Faculty Association (UTFA) agrees to changes during salary and benefits negotiations. Should faculty and librarians, represented by UTFA, agree to Professor Reisz's proposal that older and less valuable faculty and librarians make a massive donation by accepting standard salary increases?

Charity is a good thing, but charitable donations should be voluntary. Thus if Professor Reisz can afford to give up a significant portion of his salary over the rest of his career, then he might well wish charitably to make a donation to the University.

This voluntary donation by Professor Reisz would be tax deductible and would, furthermore, not negatively affect his future pension benefits. The involuntary donation he proposes for the rest

of us, on the other hand, would not be tax deductible and would entail reduced pensions.

However, the administration might prefer Reisz's scheme for involuntary donations. Not only would they get their massive donation but because our pensions would be substantially lower, there would be a greater surplus in the pension fund to be used as they are using the current surplus, for their own pet projects and not for the benefit of faculty and librarians.

Many faculty and librarians do not find themselves in the fortunate financial situation in which Professor Reisz apparently is. They can afford neither salary cuts nor significantly reduced pensions. Nor, given past involuntary donations, have they any obligation to make further sacrifices.

Our salaries are made up of two components, the base salary and the PTR component added each year. The latter represents our "progress through the ranks," what the University pays us over and above our base salaries as we acquire, through experience, the knowledge and expertise that makes us better

teachers and researchers. The PTR component correctly represents progress through the ranks only if the base salary is kept constant, rising with inflation.

It has not done so. We have kept ahead of inflation only because some PTR money has been used to make up the difference between our base salary and inflation. So only some of our PTR money actually represents genuine progress through the ranks. Meritorious work has kept us afloat but has not produced the progress-through-the-ranks increases the salary scheme promises. The difference between what the scheme promised and what we have received has been an involuntary donation by faculty and librarians to the University.

The University has benefited from, and will continue to benefit from, its failure to live up to what the salary scheme requires. It is neither reasonable nor fair to demand a further donation. President Prichard, as a lawyer who understands equity, surely understands this.

FRED WILSON
DEPARTMENT OF PHILOSOPHY

ON THE OTHER HAND

BY NICHOLAS PASHLEY

NOW A MESSAGE FROM OUR SPONSOR

SOME OF YOU HAVE ASKED ME TO respond to the recent survey in which Canadians reported which celebrities they would most like to shower with. The list featured a predictable array of movie hunks and supermodels, although Brian Mulroney figured rather larger than one would have guessed — snacks of ballot box stuffing to me. Still, if there is someone on this campus with whom you would like to shower, let me know and I'll publish the results. Perhaps there are people around here you wish would shower. Period.

But your personal hygiene is not what this column is about. This column is about arts funding. Your correspondence was present in November when Donna Scott, chair of the Canada Council, declared that the public well had run dry and that Canadian writers and artists should be forming what she called "partnerships" with the private sector. Why, she asked, would businesses not consider sponsoring an artist?

Good question. I've been talking to the nabobs at your campus bookstore about sponsoring an author. We wouldn't want just anybody, of course. We wouldn't want a dud. Or someone who wrote material we found, well, unsuitable. Don't get me wrong. We could live with someone slightly raffish and even occasionally controversial. Needless to say, however, we'd like someone with a proven track record, someone who isn't afraid of a little hard work, someone appropriately literary while commercially viable.

In short, we're looking for someone very like, for instance, say Margaret Atwood. Now we wouldn't be like the Canada Council. We wouldn't just send Ms Atwood — or whomever we selected — a great fat cheque and tell her to get on with it, drop us a line some time. No way. Business demands accountability. We'd want receipts.

We would also have to think about what we were getting out of this relationship. Would Ms Atwood consider changing her name to Margaret U of T Bookstore-Atwood? Okay, probably not. But perhaps she'd wear



an item of clothing with the Bookstore logo whenever she did a reading. If an author had enough corporate sponsors the might look a bit like a Formula One driver, and would CanLit be any the worse for that?

There are other ways to please a sponsor. Brief complimentary references in a novel to, say, a well-appointed central Toronto bookstore would not go amiss. When Ms Atwood's characters meet for lunch, one might demand to see what another had in her hand — some plastic blue-and-white shopping bag. "Oh," she might say, "just some wonderful books I picked up at the U of T Bookstore on my way."

"Oh," another might reply, "I love the U of T Bookstore! I find everything I want there: books, stationery, computer supplies, T-shirts, you name it. And such friendly and knowledgeable staff!"

That's the sort of thing we're looking for. Ms Atwood, of course, is also a poet, so a little couplet like "I think that I shall never see/A bookstore quite like U of T" might lead into a perfectly good poem about, well, whatever poets write about. That's up to her. This sort of thing has been going on in the movies for years, so why not books? It's a win-win situation, as we say in the business world.

And now the answers to December's end-of-the-year quiz that never was: 1. Professor Gilbert, in the Graduate Students' Union pub, with the lead pipe; 2. All of the above; 3. They are both in Scarborough; 4. Campus Beverage Services; 5. "Is that the engineers' cannon or are you just happy to see me?"; 6. Lawyers; 7. John Snobelen; 8. Trick question: the real motto of the Athletic Centre is We Don't Swim in Your Toilet, Please Don't Pee in Our Pool; 9. There are skid marks in front of the laboratory rat; 10. "Just as a tree with age needs a few limbs hacked off from time to time."

Unfortunately (and obviously) there were no winners again this year, so I shall share the case of bubbly with the editorial staff of *The Bulletin*. Better luck next year.

BOOKS



December

Taking a Stand: Essays in Honour of John Beckwith, edited by Timothy McGee (University of Toronto Press, 320 pages; \$70). Beckwith's career as a composer, performer, teacher, administrator, author, editor and promoter of Canadian music is perhaps unparalleled and this is it fitting that this group of papers reflects not only his contribution but also the current major directions of Canadian music. The music of Canada — past and present popular, folk and classical; its creators collectors and educators — is presented, discussed and analyzed by prominent scholars.

Discourse and Power in Educational Organizations, edited by David Corson (Hampton Press/OISE Press, 348 pages; \$29.95). In addressing its topic this book combines two central traditions in contemporary social science inquiry — concern for the postmodern and postpositivist condition of the contemporary world and concern for the praxis of critical theory. The contributions presented here are approached from either or both of these traditions.

Foregrounded Description in Prose Fiction: Five Cross-Literary Studies, by Jose Manuel Lopes (University of Toronto Press, 200 pages; \$45). In this study a theoretical framework for analyzing the role of description in prose fiction is proposed and readings of texts drawn from four national literatures — French, Spanish, Portuguese and Brazilian — are offered, testing the model across a cultural and temporal spectrum.

Catching up

On the Demon-Mania of Witches, by Jean Bodin, translated by Randy Scott, introduction by Jonathan L. Pearl* (Centre for Reformation & Renaissance Studies, Renaissance & Reformation Texts in Translation, 7, 218 pages; \$15). Bodin's *On the Demon-Mania of Witches* was published in 1580 and quickly became one of the most widely read and translated works on witchcraft in Europe. It is a passionately argued treatise on the reality and dangers of magic and witchcraft which Bodin saw as a growing threat to the state and makes detailed recommendations to judges for the effective prosecution of witchcraft cases. The introduction to the text situates the treatise in the context of Bodin's thought and the historical experience of his age.

The Genealogy of Values: The Aesthetic Economy of Nietzsche and Proust, by Edward G. Andrew (Rowman and Littlefield, 178 pages; \$40 US cloth, 19.95 US paper). Until the time of Marx and Mill, philosophers generally held economics to be an integral part of moral philosophy but confined the language of values to economics. But since philosophers have ceased to know anything about economics, values discourse has spilled over from economics into moral philosophy and everyday speech. Nietzsche's view that nothing is inherently valuable, and Proust's view that no one is inherently lovable, enables the language of the marketplace to hold sway over alternative languages.

MONDAY
15
JANUARY, 1996
UTORDIAL
CHARGES
START TODAY!

UTORDIAL SERVICE CHARGES BEGIN JANUARY 15, 1996

On September 25th, 1995, the Information Commons, the University of Toronto Library, and University of Toronto Computing launched two new services: the campus-wide e-mail service, UTORmail, and the general dial-in Internet access service, UTORDial. Since that date over 5,600 UTORDial accounts have been created and over 9,100 UTOEmail mailboxes have been activated.

When a UTORDial account is created, it is initialized with one free "token". Each token represents 20 hours of dial-in Internet or e-mail access and costs \$11. During the "introductory period" the UTORDial service was free. Effective January 15, 1996, student accounts on the UTORDial service will begin to be decremented. This means that starting January 15, the first 20 hours of UTORDial access are free. For more hours students will have to purchase additional tokens. The following is an excerpt from the *UTORDial and PACNET Services* document that was distributed in the software "starter packages":

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When you connect to UTORDial, you are charged for the duration of your connection. Connect time is sold in blocks of 20 hours, called "tokens". Each token costs \$11 (\$0.55 per hour). When you activate a UTORDial

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Tokens are not transferable or refundable. As you consume connect time, the token(s) in your account will be debited. Because your token balance is checked only at the beginning of your session, it is possible that your balance can become negative. You will have to purchase additional tokens before you can connect again. The tokens you purchase will be used first to balance the debit and then to credit your account.

Purchases can be made with cash, MasterCard, VISA, or Interac Direct Payment bank card. You can check your UTORDial account balance (from any Library terminal without charge) by connecting to <http://www.dialin.utoronto.ca/>.

If you have any questions about purchasing tokens you can call the Library's First Stop phone service at 978-8450.



INFORMATION COMMONS



UNIVERSITY OF TORONTO Department of Computer Science Colloquia

A Series of Distinguished Lectures on
**Computer Science: Its Theory, Practice,
Applications, and Implications**

<http://www.dgp.utoronto.ca/upcoming/sprcoll.html>

January - May 1996

- | | |
|-------------|--|
| February 6 | Jayadev Misra , University of Texas at Austin
Powerlist: A Structure for Parallel Recursion |
| February 13 | Charles Colbourn , University of Waterloo
Erasure Codes |
| February 27 | Michael Stillman , Cornell University
Macaulay 2 and Computing in Algebraic Geometry |
| March 5 | Gerhard Fischer , University of Colorado at Boulder
Design Environments in Support of Rethinking and Reinventing Education as a Lifelong Process |
| March 26 | Eugene Fiume , University of Toronto
Is Realistic Computer Graphics Just Smoke and Mirrors? |
| April 2 | Michael Brodie , GTE
The Emperor's Clothes are Object-Oriented (and Distributed) |
| April 9 | Anoop Gupta , Stanford University
The Stanford FLASH Multiprocessor: Hardware and Software |

This lecture series is sponsored by the Department of Computer Science of the University of Toronto and by the Information Technology Research Centre of the Province of Ontario.

All lectures take place on Tuesdays from 11 a.m. to noon (unless otherwise specified) in Sandford Fleming 1105, 10 King's College Road. Refreshments will be served in the area outside SF1105 from 12 to 12:30.

Keep your calendars open April 28 - May 1, 1996 for a special colloquium on **The Internet: Beyond the Year 2000** in Convocation Hall sponsored by ITRC, the Department of Computer Science and the Connaught Fund of the University of Toronto. More information to follow in the coming weeks and months. Please look at our Web page: <http://www.dgp.utoronto.ca/upcoming/Internetconf.html> for regular updates and registration information.

AGGRESSION

University College Symposium 18



Monday, January 29 - Friday, February 2, 1996

Opening Lecture
Monday, 7:00 p.m.
Room UC 179

Tuesday-Friday
10:00 a.m. - 4:00 p.m.
UC 179

A brochure is available from UC 173 detailing speakers and program.

For more information please call 978-8083.

All are welcome.
Admission is free.

EVENTS



LECTURES

Emperor Pedro II of Brazil: The Man and the Monarch.

TUESDAY, JANUARY 23
Prof. Roderick Barman, University of British Columbia. Faculty Common Room, Brennan Hall, 81 St. Mary St. 5:30 to 7 p.m. *Brazil Seminar*

Ancient Eurasian Texts: New Evidence from the Tarim Basin.

WEDNESDAY, JANUARY 24
Prof. E.J.W. Barber, Occidental College. Lecture room, McLaughlin Planetarium. 5:15 p.m. *Archaeological Institute of America, Toronto Society*

Why I Stay.

WEDNESDAY, JANUARY 24
Prof. E.M. Margaret Brennan, Regis College. What's Right with the Catholic Church series. Elliott MacGuigan Hall, 67 St. Nicholas St. 7:15 to 9:15 p.m. *Regis*

Greenspan on Foucault.

WEDNESDAY, JANUARY 24
Edward L. Greenspan, Q.C. Victoria College Chapel. 7:30 p.m. *French*

The Medieval Freud: Did Sane People Have Psychoses?

FRIDAY, JANUARY 26
Prof. Nancy Parmer, McGill University 1996 Bertie Wilkinson memorial lecture. 400 Alumni Hall, St. Michael's College. 121 St. Joseph St. 4:10 p.m. *Medieval Studies*

Women Scientists: Current Issues and Realities.

SUNDAY, JANUARY 28
Panel discussion: Prof. Heather Munroe-Blum, vice-president (research and international relations), moderator; joint session with the University of Toronto. Auditorium, Medical Sciences Building. 3 p.m. *Royal Canadian Institute*

Music and Rolls in the Middle Ages.

MONDAY, JANUARY 29
Prof. Thomas Kelly, Harvard University, and Prof. Richard Grigg, Fordham University. Music Room, Hart House. 4:00 p.m. *PIMS and Hart House Music Committee*

Establishing the Canterbury Tales

TUESDAY, JANUARY 30
Prof. Lee Patterson, Yale University. Alumni Hall, Victoria College. 4:10 p.m. *Toronto Centre for the Book, English and Victoria*

Recent Excavations at Greek and Roman Troy.

TUESDAY, JANUARY 30
Prof. C. Brian Rose, University of Cincinnati; James Walter Graham memorial lecture. 140 University College. 4:30 p.m. *Fine Art*

Unexpected Intersections: Commonalities between the Radicalism of Theodor Adorno and the Humanist Vision of Northrop Frye.

WEDNESDAY, JANUARY 31
Prof. James Cunningham, Ontario Institute for Studies in Education. 8-108 Ontario Institute for Studies in Education, 252 Bloor St. W. 4 p.m. *OISE*

Scribes & Two Anonymous Medieval Greek Manuscripts: The Fall of Constantinople, 1392.

Alexander the Great, 1388.

WEDNESDAY, JANUARY 31
Prof. Corina Matusz, Rand Afrikaans University. Common Room, Pontifical Institute for Medieval Studies. 4:10 p.m. *PIMS and Greek-Canadian Association of Constantinople*

The Life Course and the Welfare State from an International Perspective.

WEDNESDAY, JANUARY 31
Prof. Walter Heinz, University of Bremen, visiting professor of German and European studies. Combination Room, Trinity College. 4:30 to 6 p.m. *CIS*

What a Community and Its Symbols Have to Offer a Society without Community.

WEDNESDAY, JANUARY 31
Dean Ron Mercer, Regis College. What's Right with the Catholic Church series. Elliott MacGuigan Hall, 67 St. Nicholas St. 7:15 to 9:15 p.m. *Regis*

Uncertainty, Surprise and the Limits to Prediction.

SUNDAY, FEBRUARY 4
Prof. Crawford Holling, University of Florida. Auditorium, Medical Sciences Building. 3 p.m. *Royal Canadian Institute*

Working with Adolescents: Putting Gender on the Agenda.

MONDAY, FEBRUARY 5
Myra Novogrodsky, Toronto Board of Education, and panel of students; Popular Feminism series. Boardroom, 12th floor, 252 Bloor St. W. 8 p.m. *Women's Studies in Education, OISE*

COLLOQUIA

Cellular and Molecular Aspects of Aging: A Role for a Ticking Clock.

WEDNESDAY, JANUARY 24
Prof. Phyllis Wise, University of Kentucky. 4043 Sidney Smith Hall. 4:10 p.m. *Psychology*

Instruments, Innovations and the Shape of 18th-Century Chemistry.

WEDNESDAY, JANUARY 31
Prof. Trevor Levere, Institute for the History & Philosophy of Science & Technology. 323 Victoria College. 4 p.m. *IHPST*

What Self-Consciousness Does.

THURSDAY, FEBRUARY 1
Prof. Patricia Kitcher, University of California at San Diego. 140 University College. 4 p.m. *Philosophy*

The Rotation of the Earth.

THURSDAY, FEBRUARY 1
Prof. John Wahr, University of Colorado. 102 McLennan Physical Laboratories. 4:10 p.m. *Physics*



SEMINARS

Industrial Organic Chemicals in Groundwater: Field Experiments.

WEDNESDAY, JANUARY 24
Prof. John Cherry, University of Waterloo. 116 Wallberg Building. 1:10 p.m. *Chemical Engineering & Applied Chemistry*

Science and Drug Regulation: Evaluation of Bioequivalence of Generic Drugs.

WEDNESDAY, JANUARY 24
Prof. Laszlo Endrenyi, Department of

Pharmacology. 4227 Medical Sciences Building. 4 p.m. *Pharmacology*

RRSP Seminar.

WEDNESDAY, JANUARY 24
Metro Credit Union seminar. 2-214 Ontario Institute for Studies in Education, 252 Bloor St. W. 7 to 10 p.m. Fee: \$5, free to members.

Environmental Phenomenology and a Sense of Place.

THURSDAY, JANUARY 25
Prof. Ingrid Stefanovic, Department of Philosophy. 2093 Earth Sciences Centre. 4 p.m. *IES*

The Gauls and the Greybeards.

FRIDAY, JANUARY 26
Prof. Christer Bruun, Department of Classics. 256 University College. 3:10 p.m. *Classics*

Multirate Digital Signal Processing, Filter Banks and Wavelets.

TUESDAY, FEBRUARY 6
Todor Cooklew, NATO science fellow; first of six seminars. 410 Haultain Building. 11 a.m. to 1 p.m. *Electrical & Computer Engineering*

MEETINGS & CONFERENCES

Here Comes the Crunch: Forces Shaping the Future of Universities.

THURSDAY, JANUARY 25
Speakers include Larry Grossman, former leader of the Ontario Progressive Conservative Party; Michael Goutlay, deputy minister of finance for Ontario; Peter Dungan, Institute for Policy Analysis; and Michael Horn, York University. East Hall, University College. 11 a.m. to 3 p.m. RSVP Chris Penn, 978-3351. *UTFA*

Aggression.

MONDAY, JANUARY 29 TO FRIDAY, FEBRUARY 2
University College Symposium 18. All sessions in T9 University College unless stated otherwise.

MONDAY, JANUARY 29
Aggression and Global Affairs in 2010; sponsored by the University College Alumni Association. 7 p.m.

TUESDAY, JANUARY 30

Cogito ergo sum: Assom or Gesture of Defiance. 11:10 a.m.
Fighting at Nottingham in the English Civil War. 12:10 p.m.
War without Hatred. 1:10 p.m.
The Aggression-Compassion Puzzle: Gender, Environment, Economics and Foreign Policy: a video will be shown during this presentation. 2:10 p.m.
Beyond Security: Civility as a Response to Aggression. 3:10 p.m.
Aggression and the Popular Media: film selections will be shown. 7 p.m.

WEDNESDAY, JANUARY 31
Session on Aggression in Animals. Communication in Animal Aggression. 10:10 a.m.
Experiments on the Pay-Off of Aggression. 10:40 a.m.
Developmental Aspects of Aggression. 11:10 p.m.
General discussion. 11:40 a.m.
Hunters and Gatherers: The First to Consider Animal Rights? 12:10 p.m.
To Fly or Bear: Two Styles of Aggression Management. 1:10 p.m.
Aggression in Non-Human Primates: Constructing Human Nature. 2:10 p.m.
Music of Aggression and Repose: a live performance. 2:40 University College. 3:10 p.m.

THURSDAY, FEBRUARY 1
Agny Men and Difficult Women: Tales

of Exculpation. 10:10 a.m.
The Man They Couldn't Kill: The Continuing Conceptual Life of the Psychopath. 11:10 a.m.
Crime Fiction and Aggression. 12:10 p.m.
Motivation for Social Conflict: Neuropsychological Bases and Mythic Representations. 1:10 p.m.
Voices for a Peaceful Society (Resisting Violence in Our Everyday Lives). 2:10 p.m.
The Place of Aggression in Asian Systems of Unarmed Combat, Especially Judo; a video will be shown during this presentation. 3:10 p.m.

FRIDAY, FEBRUARY 2

Three Grenades: Ernst Jünger, Robert Graves and David Jones in the Great War. 10:10 a.m.
The Growth Imperative of the Capitalist Enterprise. 11:10 a.m.
Ruskin's *Unto This Last and Cooperation*. 12:10 p.m.
Cockfighting and the Social Construction of Virtue Aggression in Ancient Greece. 1:10 p.m.
Controlling Misconduct in the Military. 2:10 p.m.

Governing Council.

THURSDAY, FEBRUARY 1
Council Chamber, Since Hall. 4:30 p.m.

The Transformation of Public Sector Industrial Relations.

THURSDAY, FEBRUARY 1
A half-day conference with international experts including Peter Doeringer, Harvard University; Walter R. Heinz, University of Bremen; Phillip Beaumont, Glasgow University; and Peter Warran, Centre for International Studies. Gold Room, Park Plaza Hotel, 4 Avenue Rd. 4 to 7 p.m. Registration fee: \$100, students and academics \$10. Information: 978-1623. *CIS*

Gender Inclusive Research.

SATURDAY, FEBRUARY 3
Symposium. Topics: Gender Inclusive Research: What Is It and How to Do It? The Effect of Hormones on Drug Metabolism: Implications for Gender Inclusive Research; The Role of Funding Agencies in Promoting and Funding Women's Health Research: Accomplishments and Opportunities. Auditorium, Medical Sciences Building. 9 a.m. to noon. Registration: 967-4335. *Gender Issues Committee, Faculty of Medicine*

Managing Ethical Issues in Universities and Colleges.

MONDAY, FEBRUARY 5 AND TUESDAY, FEBRUARY 6
Speakers include: Harry Arthurs, former president, York University; Douglas Auld, president, Loyola College; Patricia Marchak, dean of arts, University of British Columbia; Peter Morand, former president, NSERC; Charles Pascal, former deputy minister of education and training; and Donald Savage, executive director, Canadian Association of University Teachers. Ontario Institute for Studies in Education. Registration fee: \$422.65. Information and registration: 944-2652. *Ontario Council for Leadership in Educational Administration*



MUSIC

FACULTY OF MUSIC EDWARD JOHNSON BUILDING

Jazz Ensembles.

WEDNESDAY, JANUARY 24
Phil Nannum and Gary Williamson, directors. Walter Hall. 8 p.m.

WEDNESDAY, JANUARY 31

Alex Dean and Kevin Turcotte, directors. Walter Hall. 8 p.m.

Thursday Noon Series.

THURSDAY, JANUARY 25
Student jazz ensemble directed by Mike Murley. Walter Hall. 12:10 p.m.

U of T Symphony Orchestra.

SATURDAY, JANUARY 27
Dwight Bennett, conductor. MacMillan Theatre. 8 p.m. Tickets \$10, students and seniors \$5. Box Office: 978-3744.

Faculty Artist Series.

MONDAY, JANUARY 29
Keith Atkinson, oboe, and Che Anne Loewen, piano, with Kathleen McLean, bassoon. Walter Hall. 8 p.m. Tickets \$15, students and seniors \$10. Box Office: 978-3744.



PLAYS & READINGS

Farther West.

WEDNESDAY TO SUNDAY, JANUARY 14 TO JANUARY 28
By John Murrell; directed by Jackie Maxwell. Graduate Centre for Study of Drama production. Robert Gill Theatre. Koffler Student Services Centre. Performances at 8 p.m. except Sunday 2 p.m. Tickets \$10, students and seniors \$8. Reservations: 978-7986.

U of T Drama Festival.

WEDNESDAY TO FEBRUARY 3
Festival will showcase five student scripts and four previously published one-act plays; Mira Friedlander, adjudicator. Hart House Theatre. 7:30 p.m. Tickets \$10 per evening, \$30 for all four nights; students \$5 and \$15. Box Office: 978-8668.

Les Belles Soeurs.

WEDNESDAY, JANUARY 31 TO SATURDAY, FEBRUARY 3; AND THURSDAY, FEBRUARY 8 TO SATURDAY, FEBRUARY 10
By Michel Tremblay, directed by Mimi Melnik. Erindale Studio Theatre, Erindale College Theatre. Erindale 1995-96 season. Performances at 8 p.m. except Saturday, Feb. 10 at 2 and 8 p.m. Tickets \$10, students and seniors \$7 (Sat. Feb. 10 matinee \$7, students and seniors \$5). Reservations (905) 569-4369.

FILMS

Israeli Films.

THURSDAY, JANUARY 25
Films about the experiences of Israeli youth; their culture, music and passions. Innis College Town Hall. 5:30 to 7:30 p.m.

EXHIBITIONS

SCHOOL OF ARCHITECTURE & LANDSCAPE ARCHITECTURE

Emerging Territories in Canadian Architecture; and Ten Canadian Schools Exhibition.

To January 25.

Emerging Territories presents the 16 proposals selected from some 155 entries by young architects, graduate architects and students in Canada in a national ideas competition to represent Canada at the International Exhibition of Architecture in Venice. Ten Schools comprises 23 photographs panels, each of the 10 schools

EVENTS

being represented by two panels. SALA Gallery, 230 College St. Hours: Monday to Friday, 9 a.m. to 5 p.m.

SCARBOROUGH COLLEGE Watersline

To JANUARY 26
Michael Drew Campbell, mixed media wall works.

Contemporary Art in Scarborough VIII: An Eco-Art Exploration.

JANUARY 31 TO FEBRUARY 16
A juried exhibition of community artists; annual collaboration with Scarborough Arts Council. The Gallery. Gallery hours: Monday to Friday, 11 a.m. to 4 p.m.

JUSTINA M. BARNICKE GALLERY HART HOUSE

Frederick Coates (1890-1965): Portrait of an Artist/Designer.

To JANUARY 28
Documents the artist's designs for architecture, graphics, theatre sets and costumes and includes watercolours, drawings, photographs and objects. Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday and Sunday, 1 to 4 p.m.

THOMAS FISHER RARE BOOK LIBRARY Cooper & Beatty: Designers with Type.

To APRIL 30
An exhibition of type specimen books and examples of typographic design, mainly from the 1950s and 1960s, by the firm of Cooper & Beatty. Thomas Fisher Rare Book Library. Hours: Monday to Friday, 9 a.m. to 5 p.m.

MISCELLANY

Introduction to Maple.

WEDNESDAY, JANUARY 24
A half-day course. Room 204, 4 Bancroft Ave. 9 a.m. to noon. Registration required. Andrej Pindor, 978-5045; e-mail, andrej.pindor@utoronto.ca Information Commons.

Future of the Welfare State.

WEDNESDAY, JANUARY 24
A debate, with former Ontario premier Bob Rae and William Kristol, editor and publisher of the Washington magazine *Standard* and the 1996 Malm Harding visitor. Auditorium, Earth Sciences Centre. 7:30 to 9:30 p.m. Information: 978-7253.

Financial & Estate Planning in 1996.

WEDNESDAY, JANUARY 24
Featuring Timothy Wachs, tax law specialist, and Michael Lem, investment adviser. Council Chamber, South Building, Erindale College. 7:30 p.m. Reservations: (905) 828-5454. Erindale College Alumni Association.

Performance Art at Hart House.

WEDNESDAY, JANUARY 31
Featuring the Crossroads Card Collective with Word As Art, a celebration of word music and culture. Music Room. 7:30 p.m. Information: 978-2453.

DEADLINES

Please note that information for Events listings must be received in writing at The Bulletin office, 21 King's College Circle, 2nd floor, by the following times:

Issue of February 5, for events taking place Feb. 5 to 19: MONDAY, JANUARY 22.

Issue of February 19, for events taking place Feb. 19 to March 11: MONDAY, FEBRUARY 26.

Where to find THE BULLETIN

RACKS AND BOXES

Blair & St. George southeast corner

Gerald Larkin Building 16 Devonshire Place, lobby

Claude T. Bissell Building 140 St. George St., outside

Roberts Library north entrance

Wycliffe College Hoskin Ave. at Tower Rd.

Whitney Hall 85 St. George St. in sheltered entrance

Sir Daniel Wilson Residence 73 St. George St. box by porter's door

Sir Daniel Wilson Residence southwest corner

21 King's College Circle inside front door

University College lobby

Simcoe Hall rack inside door

Medical Sciences Building main entrance

Medical Sciences Building east side by dean's office

Sigmund Samuel Library lobby

Hart House Arbor Room entrance

Sidney Smith Hall inside east and west doors

Sidney Smith Cafeteria east door

Innis College Suxsex Ave., at Innis College Cafe

New College 21 Classic Ave., Wilmot Hall

New College 40 Willocks St.

New College northeast corner, Huron and Willocks

Botany 25 Willocks St. corridor on east side

Forestry 33 Willocks St., east entrance

45 Willocks St. front of building

Lash Miller Chemical Laboratories Willocks St. and St. George St. entrances

McLennan Physical Laboratories main foyer

Knox College 59 St. George St., southwest corner

45-49 St. George St. box between buildings

Galbraith Building lobby on St. George St.

International Students Centre inside door

Koffler Student Services Centre St. George St. and College St. entrances

215 Huron St. inside front door

Sandford Fleming Building in open area

College St. & King's College Rd. northeast corner

FitzGerald Building Taddle Creek Road, east side

Best Institute 112 College St., on wall

UNIVERSITY OF TORONTO JOINT CENTRE FOR BIOETHICS

SECOND ANNUAL JUS LECTURE

"Scientific and Ethical Dilemmas of Advances in Huntington's Disease"

Anne B. Young, MD, PhD

Chief, Neurology Service, Massachusetts General Hospital
Julianne Dorn Professor of Neurology, Harvard Medical School

Wednesday, February 7th, 1996, 4:00 - 5:30 p.m.

Mount Sinai Hospital, Ben Sadowski Auditorium

600 University Avenue, 18th floor

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Executive 1333CDT • Pentium 133MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 1.44 FloDisk modem. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$3,850 Monitor extra	Executive 1003CDT • Pentium 100MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 1.44 FloDisk modem. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$3,110 Monitor extra	Executive 756CD • Pentium 75MHz. • 256KB level 2 cache. • 8MB RAM standard. • 1.05GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 1.44 FloDisk modem. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$2,160 Monitor extra
Executive 1333CD • Pentium 133MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$3,820 Monitor extra	Executive 1003T • Pentium 100MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$2,800 Monitor extra	Executive 753 • Pentium 75MHz. • 256KB level 2 cache. • 8MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$1,870 Monitor extra
Executive 1333T • Pentium 133MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$3,540 Monitor extra	Executive 1003 • Pentium 100MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$2,770 Monitor extra	Executive 752 • Pentium 75MHz. • 256KB level 2 cache. • 8MB RAM standard. • 1.05GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$1,710 Monitor extra
Executive 1333 • Pentium 133MHz. • 256KB level 2 cache. • 16MB RAM standard. • 1.275GB hard disk drive. • Quad Speed CD-ROM drive. • PCI video w/VRAM, exp. to 2MB. • 16-bit sound card with 3D-SID sound and stereo speakers. • 133C 2.5A expansion slots. • High Speed serial and parallel ports. • Flat BIOS for easy upgradability. • DOS 6.2.2W for Windows 3.11. • Windows 95 Upgrade included. \$3,510 Monitor extra		
PACKARD BELL MONITORS 1020 14" .28mm dot pitch Non-Interlaced \$365. 2020 15" .28mm dot pitch Non-Interlaced \$470. 2020 17" .28mm dot pitch Non-Interlaced \$850. Stereo speakers that attach to the sides of these monitors are included in all Packard Bell CDT Multimedia systems. All Systems Include 3 Year Warranty		
<div> <div> <p>Ask About NOD Computer Financing</p> </div> <div> <p>LOW weekly payments! LOW interest rate! NO credit history required! NO co-signer needed! (a.s.c.) Available to Faculty, Staff and Students</p> </div> </div> <div> <div> <p>University of Toronto Koffler Student Centre 214 College St., 3rd floor Voice: 416-978-7947 Fax: 416-978-7242</p> </div> <div> <p>Computer Shop</p> </div> </div>		

CLASSIFIED

A classified ad costs \$15 for up to 35 words and \$.50 for each additional word (maximum 70). Your phone number counts as one word, but the components of your address will each be counted as a word. No charge for postal code. A cheque or money order payable to **University of Toronto** must accompany your ad. Ads must be submitted in writing, 10 days before *The Bulletin* publication date, to **Nancy Bush, Department of Public Affairs, 21 King's College Circle, 2nd Fl., Toronto, Ontario M5S 1A1.** Ads will not be accepted over the phone. To receive a tearsheet and/or receipt please include a stamped self-addressed envelope. For more information please call: (416) 978-2106.

ACCOMMODATION RENTALS AVAILABLE —METRO & AREA—

Central, luxury, fully furnished, large condominium apartment in high-rise. Spacious, 2-bedrooms, 2 baths en suite, 6 appliances. Balcony. Opposite park. Swimming pool. Security. Parking. Prime location. 15 minutes TTC University line to U of T. Faculty or professional couple. References: \$1,250 inclusive. 250-3039.

Short- or long-term apartment. Annex — one bedroom, fully equipped, immaculate, quiet, smoke- and pet-free, 5 appliances, parking, \$300 per week. Walk to U of T. Available immediately. (416) 967-6474.

Sabbatical rental. Toronto. Approx. July 1996 — June 1997. Furnished 3-bedroom + study, Bloor West area. Easy access to Universities of Toronto & York. \$1,300 monthly + utilities. Richard Lalonde. (416) 736-5118 or LALONDE@YORKU.CA

Furnished 2-bedroom apartment for sublet in quiet neighbourhood in east High Park. Available for March and April. TTC easily accessible, 20 minutes to downtown. \$600/month. Parking included. Call 535-0263.

Sabbatical rental. July 1, 1996, one year. Detached English country house, quiet Casa Loma area by ravine. Furnished, 3BR + study, appliances, security fireplace, garden, parking. Walk to U of T, subway. \$2,000/month + utilities. No smokers/dogs please. (416) 944-0703, Bliit@YorkU.CA

Dundas/Dovercourt. Spacious lower level of Victorian house, 2 bedrooms, large eat-in kitchen, 4 appliances, private entrance, backyard. Close to shopping, TTC and U of T. \$840/month inclusive. (905) 890-0189, 890-1797.

Furnished third floor of professor's home. Private bathroom, kitchenette, deck. Shared

family room. Close to U of T. Available immediately. (416) 975-2656.

ACCOMMODATION RENTALS REQUIRED

Accommodation needed July 1996 — June 30/97. Alberta faculty member, non-smoker, experienced house-sitter, excellent references. Seeking clean, quiet, reasonably priced, self-contained apartment near Robarts Library. Meeting possible February 18-24, 1996. (403) 380-3957 (b); (403) 329-2564 (w).

Desperately seeking dogs. Female student, 25, attending for Toronto law firm (summer 1996-1997) will house/apartment sit, care for pet. Non-smoking, quiet. Speaks French, German. 1608 Adelaide St., Saskatoon, SK S7J 0J3. (306) 374-3137. eyre@duke.usask.ca

ACCOMMODATION OVERSEAS

Near Oxford, UK: two-bedroom Victorian terraced cottage, 15 minutes to central Oxford & University; £600/month + utilities. Available April/May. Non-smokers. E-mail j.davies@utoronto.ca. Tel. (416) 978-8947/461-5002.

BED & BREAKFAST

Award-winning home. Immaculate, smoke- and pet-free. Quiet nooks and crannies for reading and relaxing. Healthy breakfasts and we cater to diets. Walk to U of T, R.O.M. Parking. \$80 daily for two, \$65 for one. (416) 967-6474.

Visiting Toronto? Restored downtown guest house. Suites/rooms from \$60 daily and \$245 weekly. Voted Toronto's best — NOW readers' poll. Ashleigh Heritage Home (416) 535-4000.

VACATION / LEISURE

Ireland, Donegal: restored 1900 farm cottage for rent. Flagstone floors, gas lighting, two hearths, two bedrooms, sleeps 4. On 50 acres of mountain field above quiet seaside village. Ideal for walkers, writers, painters, photographers. Call (519) 432-7395.

HOUSES & PROPERTIES FOR SALE

COLLEGE ESTATES by KANEFF located on Mississauga Road just north of the Erindale Campus offers ultra-luxury homes in a cul-de-sac community with numerous ravine locations available, from \$615,000 phone (905) 608-8000

MISCELLANY

PERSONAL COUNSELLING in a caring, confidential environment. Dr. Ellen Greenberg thanks her U of T clients while she is on maternity leave.

Individual and Couple Psychotherapy. Daytime and evening hours. U of T staff extended benefits provide full coverage. Dr. Gale Biddell, Registered Psychologist, C.M. Hinks Institute, 114 Maitland Street (Wellesley & Jarvis), 972-6789.

Violet Head, Registered Psychologist. Individual, family and group psychotherapy. Work with other cultures, women's issues, addictions, depression, etc. U of T staff health benefits cover cost. 200 St. Clair Ave. W., Suite 404, Toronto M4V 1R1. 922-7260.

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland Street (Wellesley and Jarvis), 409-6317.

Individual cognitive behavioural psychotherapy. Practice focussing on eating disorders, depression, anxiety and women's issues. U of T staff extended health care benefits provide full coverage. Dr. Janet Clewes, Registered Psychologist, 183 St. Clair Avenue West (St. Clair and Avenue Road), 929-3084.

Dr. Daniel Fitzgerald, Registered Psychologist, 62 Charles Street East, Toronto (near St. George campus). (416) 944-0144.

Individual & couple therapy. Brief or long-term therapy available. Special interest in women's issues. Extended health care benefits cover cost for U of T staff. Dr. Linda Winter, Registered Psychologist, 2014A Queen St. East. 691-1071.

Psychologist providing individual, group and couple therapy. Personal and relationship issues. U of T extended health plan covers psychological services. For a consultation call Dr. Heather A. White, 535-9432, 140 Albany Avenue (Bathurst/Bloor).

Editorial services. Polish your gem. Substantive editing, copy editing, rewriting, plain language editing and proofreading. Efficient, friendly service (not Miss Thistlebottom). (416) 534-2133.

Winterhill. The newly established "non-school" for children ages 3 to 9. Hands on, self-initiated learning, real life experiences; community building; personal responsibility; parental involvement. Reasonable fees. Call Kate Tenner B.A., B.Ed. 694-7247

EDITING for technical papers and scholarly articles by freelance writer. Call James: 979-1669.

Vox Humana, Inc. Voice instruction and vocal reintegration therapy using Cornelius Field method. For singers, actors, teachers or anyone desiring to find their best voice. Gen Spurrell, B.A. (French/German), M.Ed. (416) 588-6946.

RECYCLE YOUR SURPLUS BOOKS. Donate books for the University College Book Sale, (Oct. 19-23). For winter pickup in Metro Toronto, phone (416) 978-2968 or fax (416) 978-3802.

BUSINESS OPPORTUNITY! "Train for Success!" International team of business leaders/entrepreneurial professionals taking advantage of the growth of a new Canadian marketing corporation which is experiencing phenomenal expansion across North America. Dynamic compensation plan. Full/part-time. Take the time! Tuesday or Thursday evening every week. Attend business briefings. Explore the possibility for your future financial independence. For further information and appointment please call: central/west (905) 844-7130, central/east (416) 698-2607.

The Ontario Institute for Studies in Education announces its Spanish classes, January 29 — April 19. Small groups, communicative method. Learn the language and culture while having fun. OISE, 252 Bloor St. W., Adult Education Dept. 977-3577.

MATERNITY LEAVE PLANNING. This free workshop adopts a highly practical approach to preparing faculty, staff and librarians for maternity leave and for a successful return to work. Wednesday, February 21, 1-2:30. Registration: call U of T Family Care Advisor 978-0951.

CHILD CARE PROBLEMS. Free workshop including information on subsidies and types of care: Choosing Child Care That Works for Your Family. Wednesday, February 14, 12-1:30. Registration: call U of T Family Care Advisor 978-0951.

MAC SERVICES. We buy, sell & upgrade used Macs. New Year specials on CPUs, monitors, printers & peripherals. For more information call 763-3570.

THE 1996 MALIM HARDING VISITORSHIP

WILLIAM KRISTOL

EDITOR AND PUBLISHER, THE STANDARD WASHINGTON

AND

BOB RAE

LEADER
ONTARIO NEW DEMOCRATIC PARTY

DEBATE

THE FUTURE OF THE WELFARE STATE

MODERATED BY
PRESIDENT J. ROBERT S. PRICHARD
UNIVERSITY OF TORONTO

WEDNESDAY, JANUARY 24, 1996
7:30 - 9:30 pm

EARTH SCIENCES AUDITORIUM
ROOM 1050
EARTH SCIENCES CENTRE
5 BANCROFT AVENUE
UNIVERSITY OF TORONTO



This is a free public dialogue. For more information call 978-3450

Faculty of Law
University of Toronto

D. B. GOODMAN MEMORIAL LECTURE



"THE NEED FOR REFORM — ABORIGINAL
PEOPLE AND THE JUSTICE SYSTEM"



Mr. Justice Murray Sinclair
Associate Chief Judge
The Law Courts, Manitoba

Thursday, February 8, 1996

4:00 p.m.

Moot Court Room
Flavelle House
78 Queen's Park

All are welcome to attend this lecture

RESEARCH NOTICES

For further information and application forms for the following agencies, please contact University of Toronto Research Services (UTRS) at 978-2163.

INTERNATIONAL

ACA KIAN FOUNDATION CANADA
The fellowship in international development management is designed to provide intensive development management training in Canada and field experience in Asia to outstanding young Canadians who are committed to pursuing a career in international development. Participants will be placed with organizations working in different aspects of development. Deadline is February 19.

DEPARTMENT OF FOREIGN AFFAIRS & INTERNATIONAL TRADE
The Science & Technology with European Partners (STEP) fund assists Canadian public and private research and development performers to access European (ESCI) partners. The fund's primary objectives are to increase and enable the participation of Canadian scientists in European research and technology development programs and projects and to facilitate access to European technologies and industrial laboratories considered important to the competitiveness of Canadian industry. The STEP fund encourages activities that are part of long-term strategies within Canadian companies and research organizations. Up to 66 percent of travel costs for eligible expenses of approved research development projects will be covered by STEP and projects must have matching funds from Canadian sources. The amount and source of these funds must be identified. For a complete application package, contact Emily Adcock at (613) 943-0612 or by e-mail at emily.adcock@ext040.1.x400.gc.ca

INTER-AMERICAN INSTITUTE FOR GLOBAL CHANGE RESEARCH
The initial vision program (IAI-ISP) supports science programs and activities in research, education and training, data and information management, communications and modelling. The focus is on the following research themes: tropical ecosystems and biogeochemical cycles, impacts of climate change on biodiversity, El Niño - southern oscillation and interannual climate variability, ocean/atmosphere/land interaction in the inter-tropical Americas; oceanic, coastal and estuarine processes in temperate zones; temperate terrestrial ecosystems and high latitude processes. Details for proposal submissions can be obtained at the following internet gopher address: "STIS.NSF.GOV" (search publications) IAI-ISP. Deadline is February 15.

SHASTRI INDO-CANADIAN INSTITUTE
Applications and nominations for the visiting lectureship in Canadian studies programs are invited for the 1996-97 academic year. Applications should be in either an history/fine arts/musicology or sociology/anthropology and include a CV, covering letter, experience and general suitability, list of indicative lecture topics and proof of citizenship or permanent resident status. Deadline is February 29.

HUMANITIES & SOCIAL SCIENCES DEPARTMENT OF NATIONAL DEFENCE
The Security & Defence Forum provides non-doctoral fellowships, PhD and MA scholarships, a PhD language program and an internship program in studies relating to current and future issues of Canadian national security and defence. Deadline is February 1.

LADLAW FOUNDATION
The foundation supports policy analysis research into the conditions that create, maintain and improve the lives and health of children. For graduate, undergraduate and transitional year program scholarships, candidates must be nominated by faculty, community leaders or employers. Doctoral fellowships are also available. Deadline is February 1.

MEDICINE & LIFE SCIENCES
MARIEN ASSOCIATION FOR CANCER RESEARCH

The Gertrude Elion cancer research award is presented annually to a non-tenured scientist at the level of assistant professor. The award recognizes research excellence in cancer etiology, diagnosis, treatment or prevention. Research must be based in a US or Canadian academic research institution. Application is by nomination and must be submitted by a member of AACR to whom the applicant is known personally. Candidates must be permanent residents of the US or Canada. Deadline is February 15.

ASSOCIATION OF CANADIAN MEDICAL COLLEGES/MRC
MRC and ACMC have established a collaborative agreement on the funding of research in medical education, with the funds administered by ACMC. Applications will be considered in support of specific research proposals in medical education; and conferences, workshops, seminars and visiting professors. Details are available from UTRS and the research office of the Faculty of Medicine. Deadline is February 15.

BAYER/CANADIAN RED CROSS SOCIETY
Bayer/CRCS invites applications for 1996 pilot operating grant money for research in the area of blood products and related fields. Candidates must be researchers working in a Canadian institution. Details on the terms of reference and eligibility are available from UTRS. Initial application is by letter of intent. Deadline is February 1.

BURROUGHS WELLCOME FUND
The fund has announced a new initiative to encourage the interdisciplinary training of promising graduate and post-doctoral students in the physical, chemical and computational sciences so they can better apply their knowledge to biomedical problems. Institutions in the US and Canada are invited to propose graduate or post-doctoral training programs, or a combination of both. Application is by letter of intent. Only one application is accepted per institution. Please contact UTRS for information on proposed applications by Jan. 26 so that any preliminary internal review process may be initiated in a timely fashion. Deadline is February 1.

JUVENILE DIABETES FOUNDATION INTERNATIONAL/CANADA
JDF International supports research into the causes, treatment, prevention and cure of diabetes and its complications. Funding is available as research grants, career development awards and post-doctoral fellowships. U of T investigators are reminded that indirect costs are permitted at 10 percent of total direct costs and to include this in the budget allocation. A copy of the first two pages of a research grant application must be received by February 15.

LEUKEMIA SOCIETY OF AMERICA
The society has announced a new translational research program to encourage and provide early-stage support for clinical research on leukemia and its related cancers. It is designed to foster interactions between basic scientists in a variety of disciplines and clinicians performing clinical research in leukemia and related cancers. Proposals must be conceptually innovative and rationally based on molecular, cellular or pharmacologic laboratory studies. Initial application is by letter of intent. Deadline is February 15.

MCDONNELL-PEW
The program in cognitive neuroscience supports research that attempts to understand human mental events by specifying how neural tissue carries out computations. Funding is offered under an investigator-initiated grant supporting interdisciplinary training and providing seed funds for collaborative research. Indirect costs are permitted at 10 percent of total salaries and fringe benefits and investigators are reminded to include the full amount in their application budget.

Documentation must also include an endorsement letter from the University together with an IRS determination letter. Both items will be supplied by UTRS upon request at the time of application review and signature. Deadline is February 26.

MEDICAL RESEARCH COUNCIL
MRC has announced that decisions regarding the September 1995 competitions for clinical trial, operating, equipment and maintenance grants will be made on or before Jan. 22 on MRC's home page of the World Wide Web http://www.hwc.ca/8100. Official notification of all September competition decisions will be sent out by mail to applicants Jan. 23-29.

ONTARIO MINISTRY OF HEALTH
Supervisors and students in clinical and community health research are advised that OMI has not yet confirmed the next competition deadline for the post-graduate and graduate research and development grants. Any announcement regarding a spring 1996 competition will be made two months before the submission deadline.

PHYSICAL MEDICINE RESEARCH FOUNDATION
PMRF invites research proposals for the 1996 Woodbridge research grant. This grant is intended to support multidisciplinary research into the causes, types, courses, diagnosis and treatment of painful (common) disorders of the musculoskeletal system. Deadline is February 15.

PHYSIOTHERAPY FOUNDATION OF CANADA
Royal Canadian Legion fellowship in gerontology for physiotherapists or direct towards physiotherapists enrolled in a university program for post-graduate training in the field of geriatrics/gerontology. Eligible candidates must be full active members of the CPA and/or licensed to practice in a Canadian province or territory. Ann Collins Whitmore memorial awards are scholarships directed towards physiotherapists pursuing studies at the master's or PhD level; undergraduate students pursuing a bachelor's degree in physiotherapy; and registered blind individuals enrolled for studies outside of Canada (provided that the course of study will qualify them to apply for licensure as a physiotherapist in a province in Canada). For the first two categories application must be involved in a research project as a requirement for completion of their degree program. Deadline is February 1.

THYROID FOUNDATION OF CANADA
The foundation offers summer student research scholarships enable in Canadian medical institutions. The research project should be concerned with the thyroid gland or its related problems and be supervised by an investigator with a major recognized interest in thyroid functions. Only one application will be accepted from each medical school. Interested medical students should contact the Faculty of Medicine's research office for details of specific internal deadlines. Non-medical students should contact UTRS The 1996 Diana M. Miller Abramsky research fellowship is open to post-doctoral candidates in the life sciences in the field of thyroid function and disease. Deadline is February 29.

PHYSICAL SCIENCES & ENGINEERING
AMERICAN CHEMICAL SOCIETY
The Petroleum Research Fund was established in 1944 and income from this trust must be used for advanced scientific education and fundamental research in the "petroleum field." Fundamental research is currently supported in chemistry, the earth sciences, chemical engineering and is not limited to fuels such as polymers and materials science.

Applications may be submitted throughout the year. The advisory board meets to review proposals three times a year, in February, May and November.

ERNEST C. MANNING AWARDS FOUNDATION
The foundation honors outstanding Canadian innovators for having conceived of and developed new concepts, procedures, processes or products of benefit to Canada. Nominations are invited for the principal award, the award of distinction and two innovations awards. Nominations must be Canadian citizens resident in Canada. Further information may be obtained from Frances Putsgans, 978-7040. Deadline at the foundation is February 15.

NATURAL SCIENCE & ENGINEERING RESEARCH COUNCIL
Applications may be made at any time to the following partnership programs: collaborative research and development grants, which support well-defined projects carried out jointly by the university and the company, and industrially oriented research grants, which usually involve generic research and may be broad projects. Details are available from UTRS.

NORTH ATLANTIC TREATY ORGANIZATION
The NATO Committee on the Challenges of Modern Society fellowships program allows fellows to contribute to the work of CCMS pilot studies. Subjects for pilot projects are proposed by NATO member countries, after which the CCMS decides on the suitability of conducting them. A brief description of each on-going pilot project is available from Tom Fleming at 978-1870. Deadline is February 28.

ROBERT A. WELCH AWARD IN CHEMISTRY
Nominations are invited for this international award recognizing important chemical research contributions that have had a significant, positive influence on humankind. Further information may be obtained from Frances Putsgans, 978-7040. Deadline is February 1.

UPCOMING DEADLINES
JANUARY 21
The British School of Archaeology in Jerusalem - scholarship, travel and research grants
Centre for Studies in Religion & Society - non-stipendiary visiting research fellowships at the University of Victoria
Ontario Ministry of Transportation - highway safety research grant program
RP Eye Research Foundation - fellowships

FEBRUARY 1
Alcoholic Beverage Medical Research Foundation - research grant
American Association for Cancer Research - Gertrude Elion cancer research award (nominations)
Arthritis Society - studentships
Bayer/Canadian Red Cross Society - operating grants (letter of intent)
Burroughs Wellcome Fund - interdisciplinary training in physical, chemical and computational sciences (letter of intent)

FEBRUARY 15
Association of Canadian Medical Colleges - research grants in medical education, workshops, conferences and seminars, visiting professors
Cancer Research Society Inc. (Canada) - fellowships, research grants
Inter-American Institute for Global Change Research - research grants
Juvenile Diabetes Foundation International/Juvenile Diabetes Foundation Canada - research grants (preliminary application)
Leukemia Society of America - translational research (letter of intent)
Ernest C. Manning Foundation - awards (nominations)
Muscular Dystrophy Association of Canada - summer fellowships
Physical Medicine Research Foundation - Woodbridge research grant

FEBRUARY 29
Shastri Indo-Canadian Institute - visiting lectureship in Canadian studies
Thyroid Foundation of Canada - research fellowships, summer research scholarships
MARCH 1
Association for Canadian Studies - awards of merit (nominations)
Canadian Heritage - Canadian ethnic studies research grants
Corporate-Higher Education Forum - Bell Canada, Xerox Canada awards (nominations)
SSHRC - international summer institutes (internal deadline)
MARCH 3
Canadian Advanced Technology Association - technology awards (nominations)
MARCH 11
NSERC - Canadian Forest Service research partnership

(intent)
Canadian Cystic Fibrosis - summer student awards
Epilepsy Canada - summer studentships, master's doctoral studentships
Epilepsy Foundation for Research - research grants
Harry Frank Guggenheim Foundation - research grants for studies concerning violence, aggression and domestic, PhD dissertation fellowships
Rick Hansen/Motion Legacy Fund - fellowships, studentships
Hereditary Disease Foundation - research grants
Ladlaw Foundation - scholarships, fellowships
Leukemia Research Fund of Canada - operating grants, fellowships
Department of National Defence - Security & Defence Forum scholarships, fellowships
National Foundation of Ileitis & Colitis (US) - personnel awards
National Institutes of Health (US) - research grants (new)
National Multiple Sclerosis Society (US) - training support, research grants
Ontario Respiratory Care Society - fellowships
Physiotherapy Foundation of Canada - Royal Canadian Legion fellowships, Whitmore scholarships
Robert A. Welch Award in Chemistry - nominations

FEBRUARY 15
Association of Canadian Medical Colleges - research grants in medical education, workshops, conferences and seminars, visiting professors
Cancer Research Society Inc. (Canada) - fellowships, research grants
Inter-American Institute for Global Change Research - research grants
Juvenile Diabetes Foundation International/Juvenile Diabetes Foundation Canada - research grants (preliminary application)
Leukemia Society of America - translational research (letter of intent)
Ernest C. Manning Foundation - awards (nominations)
Muscular Dystrophy Association of Canada - summer fellowships
Physical Medicine Research Foundation - Woodbridge research grant

FEBRUARY 29
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Canadian Heritage - Canadian ethnic studies research grants
Corporate-Higher Education Forum - Bell Canada, Xerox Canada awards (nominations)
SSHRC - international summer institutes (internal deadline)
MARCH 3
Canadian Advanced Technology Association - technology awards (nominations)
MARCH 11
NSERC - Canadian Forest Service research partnership

COMMITTEES

The Bulletin regularly publishes the terms of reference and membership of committees. The deadline for submissions is Monday, two weeks prior to publication.

ADVISORY

HART HOUSE
An advisory committee has been established to consider and review the work of Hart House during the first term of the current mandate (1992-1997) and since the presidential review of 1991. Members are: David Neelds, assistant vice-president (student affairs) (con-

venor); John Lawson, alumnus; Peggy Leatt, teaching staff; Barbara McCann, administrative staff; and Alan Kneiberg, Susan Scarow and Vera Tuck. Copies of the report of the presidential review are available from the Office of Student Affairs. Written submissions should be addressed to David Neelds, room 307, Koffler Student Services Centre, and received by January 31.

PHD ORALS

Graduate faculty please call the PhD examinations office at 978-5258 for information regarding time and location for these listings.

MONDAY, JANUARY 22

Spiros Mancoridis, Department of Computer Science, "On Controlling the Scope of Architectural Design Components Using Scoping Rules." Prof. R. Holt.

Man-Ho Simon Wong, Department of East Asian Studies, "Liu Tsung-Chou: His Doctrine of Vigilant Solitude." Prof. J.C. Ching.

TUESDAY, JANUARY 23

Gail Irene Anderson, Department of Dentistry, "Osteoblast Involvement in the Formation and Activation of Osteoclasts in Vitro." Prof. J.N.M. Heersche.

Thomas Enrico Carlson Cumbo, Department of History, "As the Twig is Bent, the Tree is Inclined: Growing up Italian in Toronto, 1905-1940." Prof. R. Perin.

Shakeela Charmaine Khan, Department of Education, "Neurophysiological Measures of Reading Difficulty in Very Low Birthweight Children." Prof. K. Oatley.

Chumci Li, Department of Immunology, "Targeted Disruption of the MAG Locus." Prof. J. Roder.

Abouva Shulman, Department of Near Eastern Studies, "The Use of Modal Verb Forms in Biblical Hebrew Prose." Prof. E.J. Revell.

Timothy A. Smith, Department of Education, "Life Stress, Major Depression and Daily Emotion: An Inquiry into Measurement, Theory and Etiology." Prof. K. Oatley.

Marianne Elizabeth Warren, Centre for South Asian Studies, "The Maharashtrian Sufi Context of Hazrat-Sri Sai Baba of Shirdi (1838-1918)." Prof. N.K. Wagle.

Mohammad-Hossein Zarrazbidez, Department of Electrical & Computer Engineering, "Differentially Coherent Synchronization Schemes for Direct Sequence Spread Spectrum Systems." Prof. E.S. Sousa.

WEDNESDAY, JANUARY 24

Elizabeth Anne Brebner, Department of Education, "Punch's Kindred: Reflections of Social Attitudes to Disability as Seen in the Depiction of a Character in European Folk Theatre." Prof. C. Musselman.

Olivier Simon Hermann Eiff, Department of Mechanical Engineering, "Experimental Analysis of the Coherent Structures within a Turbulent Jet in a Crossflow." Prof. J.F. Keffer.

Paul William Frankland, Department of Psychology,

"Pathways Mediating Acoustic Startle and Fear-Potentiation of Startle in Rat." Prof. J.S. Yeomans.

Enrol Guy Katayama, Department of Philosophy, "The Substantial Status of Aristotle's Aristotelé's Metaphysics." Prof. L. Gerson.

THURSDAY, JANUARY 25

Yukitoshi Aoyagi, Department of Community Health, "Endurance Training, Heat Acclimation and Protective Clothing: The Thermophysiology of Exercising in a Hot Climate." Prof. R.J. Shephard.

Kam-Wing Li, Department of Electrical & Computer Engineering, "Two-Phase Fuzzy Control." Profs. K.C. Smith and I.B. Turkmen.

Fabio Tulio Lopez-Lazaro, Department of History, "The Public's Vengeance: Crime and Society in 18th-Century Spain." Prof. W. Callahan.

Ruth Marie Mann, Department of Sociology, "The Politics and Experience of Domestic Abuse: A Community Study." Prof. R. Gartner.

Christine Anne Rogers, Department of Botany, "Forecasting Airborne Allergenic Pollen Concentrations." Prof. J.C. Ritchie.

Patricia Lynn Roszell, Department of Sociology, "A Life Course Perspective on the Implications of Stress Exposure." Prof. B. Wheaton.

Dale Eric Schuurmans, Department of Computer Science, "Effective Classification Learning." Prof. H.J. Levesque.

Robin J. Watson, Department of Education, "Emotional Congruence in Sex Offenders against Children." Prof. M. Eagle.

Julie May Wilson, Department of Pharmacology, "Influence of Chronic Cocaine and Amphetamine Exposure on the Brain Dopamine System: Human and Experimental Animal Studies." Prof. S.J. Kish.

Margaret Frances Wood, Institute of Medical Science, "Concordance between Tocodynametry-Detected and Self-Palpated Uterine Contractions Measured Diurnally by Women with Pregnancies at Increased Risk for Preterm Labour." Prof. J.S. Chappman.

FRIDAY, JANUARY 26

John Barnett, Department of Education, "Visions and Voices: The Curriculum Implementation of Science Plus in the Canadian

Maritimes." Prof. D. Hodson.

Dominique Blain, Faculty of Forestry, "Fertility Parameters That Limit the Productivity of Pioneer Trees on Upland Fallow Soils of the Amazon Basin, Iquitos, Peru." Prof. M. Hubbes.

Ka Yan Chan, Department of Geography, "Regional Inequalities in the Transition to a Market Economy: Changing Spatial Distribution of Income in China." Prof. C.G. Amrhein.

Moir Margaret Dossetor, Department of Philosophy, "Knowing Bodies: Feminism, Philosophy and Embodiment." Prof. K. Morgan.

Deborah Elizabeth Gustavsen, Department of Anthropology, "The Alcohol-Related Research Project of Ontario: An Alternate Methodology and Interpretation of Mortality Related to Alcohol, Ontario, 1960-1989." Prof. D.R. Begun.

Michael Leo Brennan Jerrett, Department of Geography, "Green Cost, Red Ink: An Environmental Accounting of the Defensive Expenditures Made by Municipal Governments in Ontario." Prof. A.P. Grima.

Laurette Marie Larocque, Department of Education, "An Error-Based Approach to the Study of Joint Action." Prof. K. Oatley.

David William Royal, Department of Education, "Portrait of a Traditional Educator." Prof. I. Winchester.

Ricardo Enrique Saad, Department of Electrical & Computer Engineering, "Development of a Photoelastic Tactile Transducer." Prof. K.C. Smith.

Kazem Yavari, Department of Economics, "Oil Shocks, Exchange Rates and Resource Allocation in Iran, 1960-92." Prof. G.K. Helleiner.

MONDAY, JANUARY 29

Marion Jane Wilmot Boulby, Department of Middle East & Islamic Studies, "The Ideology and Social Base of the Jordanian Muslim Brotherhood." Prof. J.A. Reilly.

John Fraser Chappel, Department of Electrical & Computer Engineering, "Novel Asynchronous Tools and Techniques." Prof. S.G. Zaky.

Antonin Dolozal, Department of Physics, "Hydrodynamic Model of Ultrarelativistic Nuclear Collisions." Prof. S.S.M. Wong.

Amalia Olga Gonzalez, Department of Education, "Graduation Rates and Times to Completion for Doctoral Programs." Prof. M. Skolnik.

Katsuko Hara, Department of Education, "A Study of Information Skills Instruction in Elementary School: Effectiveness and Teacher Attitude." Prof. D.W. Booth.

Hongfa Hu, Department of Metallurgy & Materials Science, "Mathematical Modelling and Experimental Measurements of Exothermic Melting of a Solid in a Liquid." Prof. S.A. Argypoulos.

Michael Anthony Mulder, Faculty of Music, "Piano Concerto No. 1." Prof. G.S. Ciampa.

Thomas Yaw Owusu, Department of Geography, "The Adaptation of African Immigrants in Canada: A Case Study of Residential Behaviour and Ethnic Community Formation among Ghanaians in Toronto." Prof. L.S. Bourne.

Abdolreza Rajaeefard, Department of Community Health, "Approximate Distributions of Empirical Higher Order Survivorship Functions." Prof. J. Hsieh.

Lloyd Randall Sheppard, Department of French Language & Literature, "The Dialogue of Sage and Sophist: Rabelais' *Tiers Livre* in the Humanist Context." Prof. J.A. McClelland.

Rebekah Jane Smick-McIntire, Department of History of Art, "Image and the Rhetorics of Feminine Compassion: Art Critical and Poetic Reception of Michelangelo's Vatican Pieta in the 16th and 17th Centuries." Profs. P.L. Sohn and T. Martone.

Nessa Wistoun, Department of Sociology, "Experiencing the System: A Sociological Analysis of Identification in the European Union." Prof. R. Breton.

Ailiang Xie, Institute of Medical Science, "The Role of Hyperventilation and Hypocapnia in the Pathogenesis of Idiopathic Central Sleep Apnea." Prof. T. Bradley.

TUESDAY, JANUARY 30

James Alvey, Department of Political Science, "A New Adam Smith Problem: The Teleological Basis of the Commercial Society." Prof. J. Carens.

Jean Jacques Baillargeon, Department of Philosophy, "Tolerance and Equality: A

Defence of Political Liberalism." Prof. A. Ripstein.

Nina Dawn Cole, Faculty of Management, "The Effects of Training in Procedural Justice on Perception of Disciplinary Fairness by Employees and Discipline Experts." Prof. G. Latham.

Debra Anne Hundert, Department of Education, "Paths of Learning through the Forest of Dreams: Senior Secondary Students and Theatre for Young Audiences." Prof. D. Booth.

Dunne David Laurence, Faculty of Management, "An Economic Analysis of Private Label Supply in the Grocery Industry." Profs. A. Mitchell and G. Russell.

Sandra Lee Mendlowitz, Department of Education, "Coping Mechanisms in Children with Anxiety Disorders: A Cognitive-Behavioural Therapy Outcome Study." Prof. S. Miezitis.

Rajendra Kumar Mutha, Department of Chemical Engineering & Applied Chemistry, "Nonlinear Estimation and Control: Applications to Polymer Reactions." Profs. W. Cluett and A. Penlidis.

Kristina Paal, Department of Chemistry, "Multifunctional Reagents for Site-Specific Modification of Hemoglobin." Prof. R. Kluger.

Jason Dana Stockwell, Department of Zoology, "Spatial Distribution of Zooplankton Biomass in Lake Erie." Prof. W.G. Sprules.

Jennifer P. Taylor, Department of Nutritional Sciences, "Adherence, Symptoms and Body Weight of Women Prescribed a Rotary Diversified Diet for the Treatment of Endometrial Illness." Prof. M. Kronld.

WEDNESDAY, JANUARY 31

Gang Jiang Ding, Department of Geology, "In Situ Analysis of Re-OS Systematics and Silver Isotopic Composition in Iron Meteorites Using Accelerator Mass Spectrometry." Profs. J.C. Rucklidge and L.R. Kilius.

Marguerite Ennis, Department of Statistics, "Modelling Non-Negative Outcomes Using B-Splines." Prof. R. Tibshirani.

Colin James Flood, Department of Physics, "The Role of Spatial Hole Burning in Mode-Locked, Diode End-Pumped Solid-State Lasers." Prof. H. van Driel.

Mark Webster Hurd, Department of Psychology, "Pacemaker-Pacemaker Communication in the

PHD ORALS

Mammalian Circadian System."
Prof. M. Ralph.

Shaoning Jiang, Department of Industrial Engineering, "Rule Base Reorganization for Fuzzy Expert System Design." Prof. I.B. Turksen.

Sheena Ann Josselyn, Department of Psychology, "The Effects of CCK Antagonists on the Actonists on Acquisition and Expression of Reward-Related Learning in Rats." Prof. F. Vaccarino.

Andrew Woonki Kim, Department of Sociology, "Protestant Christianity in South Korea: A Historical Sociology of Its Cultural Reception and Social Impact, 1910-1989." Prof. I. Zeitlin.

Xianhua Piao, Institute of Medical Science, "Oncogenic Property of the Kit Receptor and Its Activating Mutant Allele." Prof. A. Bernstein.

Susan Grace Rappolt, Department of Community Health, "In the Name of Science: The Effects of the Clinical Guidelines Movement on the Autonomy of the Medical Profession in Ontario." Prof. D. Coburn.

Bruce Edward Routledge, Department of Near Eastern Studies, "Intermittent Agriculture and the Political Economy of Iron Age Moab." Prof. J. Holladay Jr. and E. Banning.

Aidong Zhang, Department of East Asian Studies, "Zhong Rong's Shipin and the Aesthetic Awareness of the Six Dynasties." Prof. W. Schlepp.

THURSDAY, FEBRUARY 1
Victor DaSilva, Department of Electrical & Computer Engineering, "Transmitter Diversity and Fading Resistant Modulation for Wireless Communication Systems." Prof. E. Sousa.

Vittorio Vinicio Giuseppe Frigerio, Department of French Language & Literature, "Le devoir et la volonté: Pethique du heroes
Le comte de Monte-Cristo
d'Alexandre Dumas."
Prof. E. Lehouck.

Bradford Sinclair Hamilton, Institute of Medical Science, "Motion, Energy Expenditure and Obesity." Prof. D. Sauder.

Rhea Patrice Hudson, Department of Anatomy & Cell Biology, "Partial Characterization of a Novel Zonula Aherens Protein (TS28) in Cardiac and Epithelial Cells." Prof. A. Jorgensen.

Anna Giovanna Migliarisi, Graduate Centre for Study of

Drama, "Theories of Directing in Late Renaissance and Early Baroque Italy."
Prof. D. Pietropolo.

Kotaro Sakai, Department of Physics, "Late-Pleistocene Climate Variability and the Global Thermohaline Circulation." Prof. W. Petier.

Rodney Paul Watkins, Department of Philosophy, "Making Up One's Mind: The Metaphysics of Privileged Access."
Prof. R. de Sousa.

Ji-Ping Yang, Department of Chemistry, "The Development of Improved and More User Friendly Pulse Sequences and Software for 2D NMR." Prof. W. F. Reynolds.

FRIDAY, FEBRUARY 2
Una Loren Andrews, Graduate Centre for Study of Drama, "A Choice of Stages: The Architecture and Use of the Open Stage in Postwar Britain." Prof. R. Bryden.

Naveen Bangia, Department of Immunology, "Structural and Functional Analysis of FMHC Class II Molecules in Antigen Presentation." Prof. T. Watts.

Robin Elisabeth Anne Brownlie, Department of History, "A Fatherly Eye: Two Indian Agents on Georgian Bay, 1918-1939." Prof. S. Van Kirk.

Lisa Denise Maugans Driver, Centre for Medieval Studies, "Christian Society and Moral Values in the Homilies of Asterius of Amasia." Prof. R. Sinkiewicz.

Rudolph Dudebout, Department of Aerospace Science & Engineering, "Numerical Simulation of Hypersonic Shock-induced Combustion Ramjet Flowfields." Prof. J.P. Sislian.

Michael Kigel, Department of Philosophy, "To Bind the Chains of the Pleiades: Three Philosophical Comforters to Job." Prof. P. Goch.

Marianne Romansky, Department of Chemistry, "Studies of Ordered Macromolecular Systems." Prof. J. Guillet.

Heather Anne Wilson-O'Halloran, Department of Psychology, "The Transmission of Empathic Capacity from Maltreating and Nonmaltreating Parents to Their Children." Prof. G. Walters.

Young-Sik Yoo, Centre for the Study of Religion, "The Impact of Canadian Missionaries in Korea: A Historical Survey of Early Canadian Mission Work, 1888-1898." Prof. R. Guisno.

1996 University College Neil Graham Lecture

RICHARD W. TSINI

Stanford University

Taking Memory to Bits: Neurotransmission and Plasticity at Single Hippocampal Synapses
Thursday, February 8, 1996

4:30 p.m., Room 140, University College
15 King's College Circle, University of Toronto

Members of the staff, students and the public are cordially invited

ARTHRITIS DAY 1996

The Rheumatic Disease Unit at the University of Toronto is holding its annual Arthritis Day, Thursday February 8, 1996 at The Sutton Place Grande Hotel, 995 Bay Street. The day will include presentations from University faculty in Rheumatology, Orthopaedic Surgery, and staff from the Institute of Work and Health. The keynote addresses will be given by Dr. Richard Deyo, Department of Medicine and Health Services, University of Washington ("Myths Surrounding Back Pain"), and Dr. Russell Warren, Department of Orthopaedic Surgery, New York ("Sports Medicine: The Interface of Medicine and Surgery"). Pre-registration is necessary and the fee of \$30.00 includes the symposium, luncheon and reception.

To register contact the RDU Administrative Office at (416) 603-5144.

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APPLIED SCHOLARSHIP

The Greater Toronto Area Task Force made good use of academic vision and discipline

BY BETSY DONALD WITH ALFRED HOLDEN



U of T played a supporting role in the work of the Greater Toronto Area Task Force, formed in April of 1995 to respond to growing concerns about the health and workability of the Toronto region. The task force, which presented its report to Premier Mike Harris Jan. 16, was led by Anne Golden, a U of T governor and president of the United Way of Greater Toronto. President Robert Pritchard served as a commissioner of the task force and in that capacity was advised by Betsy Donald, a PhD candidate in planning in the Department of Geography. In this article, based on a conversation with writer Alfred Holden, Donald argues that serious, interdisciplinary scholarship has much to offer in the search for ways to make the complex city regions of the future liveable, equitable and prosperous.

USUALLY WHEN WE THINK OF PLANNING, WE THINK of subdivisions and noise bylaws — things that seem very practical and down-to-earth. But over the past few years I have learned that scholarship plays an important role in shaping the direction of the city. And over the past nine months I have seen that urban planning is becoming increasingly interdisciplinary, demanding the kinds of diverse resources that are available at a university.

When I first came to U of T as a student in 1992 to earn a master's degree in planning, I thought this would be my chance to get some practical hands-on experience that would be marketable in the workforce. I was expecting to learn how to draft an official plan or how to write bylaws but quickly realized that the philosophy of the program was to teach people how to be clear, critical thinkers so they would be equipped to find solutions to complicated urban problems.

My experience with the GTA Task Force has confirmed to me that these are the skills planners need. Fortunately the commissioners had those abilities; they could synthesize vast quantities of disparate information and find the threads linking it all together. We were talking about regional equity issues, tax issues, governance, economic competitiveness, urban form. To solve issues on this scale you must size them and understand how they relate to each other.

The University played a major role in linking people on the task force to resources in academia. When we started work in April we took a visionary-based process, rather than a what's wrong, how do we fix it? outlook. The task force chose to ask, What is the vision of the city that we have? What do we want for the future? As a result its members looked for visionaries to help them. A massive literature review to identify sources was conducted and in the end the task force solicited about 70 vision statements from thinkers all over the region, not just from U of T but from York, Ryerson and other institutions —

our approach was truly interdisciplinary.

A lot of cities, obviously, are struggling with global restructuring, government cutbacks and fundamental changes in the economy and society. But when the task force went out looking for answers through the recent experience of cities like New York, Chicago, Seattle, Vancouver and London, England, they found few ready-made solutions to draw from. It was clear a lot of the answers lay in scholarship — in current research and what had been learned from it about the changing nature of cities.

At the University, a key stop was the Department of Geography and the Program in Planning, which has attracted some of the world's leading thinkers on cities and city regions. (Carl Amrhein, chair of geography, has often said how important it is to maintain a well-developed international perspective in order to provide the best insights locally, within Canada and the region.) Among them are Enid Slack, the special policy adviser to the GTA task force on finance and governance; Meric Gertler, who has done considerable enquiry into how cities cope in the face of economic restructuring; Larry Bourne, who has investigated growth and change in Canadian urban regions; Sue Ruddick, an expert on urban social policy; and James Lemon, who wrote *Toronto Since 1918*, a landmark history of Toronto. The historical perspective was very instructive — we wanted to look at what had worked in the past, what kind of institutions we had used and how they had changed in response to changing circumstances.

THE TASK FORCE SOLICITED

VISION STATEMENTS

FROM THINKERS

ALL OVER THE REGION

The task force also consulted members of the Faculties of Law and Social Work, the Departments of Economics, Sociology, Political Science and Civil Engineering as well as the Centre of Criminology and the Institute for Environmental Studies.

LAST OCTOBER A FORTUITOUS EVENT BROUGHT WORLD experts into contact with members of the task force at U of T.

The occasion was the conference Urban Regions in a Global Context at Hart House, organized by the Program in Planning and co-sponsored by the Connaught Fund and several University departments and offices. It attracted people from all over the world — many of them renowned scholars — as well as local planners and academics. Each of the five task force members participated on a panel and it was exciting to watch all of these people interact.

The exchange of ideas was influential. In fact the conference was a turning point for the task force because it confirmed the wisdom of some approaches and led to the change of others. One of the issues the task force had to come to terms with was governance, which was probably the most difficult one to deal with because there were no suitable ready-made models. When you look at the task force's proposal, the blueprint for a new Greater Toronto encompassing the four existing regions and Metro, you might be able to find flaws, but the fact is that there are many different ways to structure a city region. We pioneered in creating Metro 40 years ago and we are again breaking new ground.

We now must wait to see what the government does with this report. Government members clearly understand these issues are complex and I'm glad to report we received much support from the provincial ministries and from the key staff of municipalities, who provided a lot of the data we needed. I sensed that everybody was working together to make this a top-notch report and I hope that will make its merit clear to people of all political stripes. The government was looking forward to seeing what the task force was going to recommend — I think the report will offer some direction.

I CAME AWAY FROM ALL THIS REASSURED ABOUT THE VALUE of scholarship in public policy-making and in the workplace. The standard of excellence I saw on the task force was high and certainly has made me strive continuously to be a better writer, a better communicator and a better researcher, working at keeping my mind as disciplined as possible. My thesis research will focus on some aspects of Greater Toronto and I am inspired to contribute to the ever-growing body of knowledge on city regions in this era of social and economic change.

One final note, tinged with a bit of irony: governments may be cutting back on education but they are also cutting back on their own departments. I wouldn't be surprised if governments look to universities more for research and policy direction, much as the GTA Task Force looked to U of T. Each time they do, it will be an opportunity to demonstrate the worth of universities to government and the community at large.